

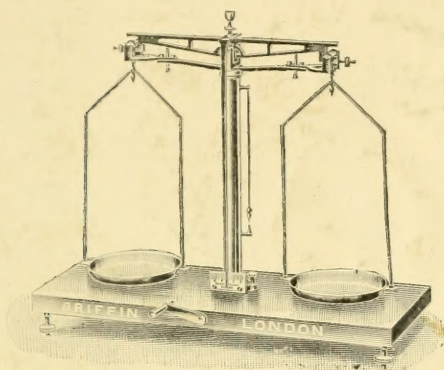




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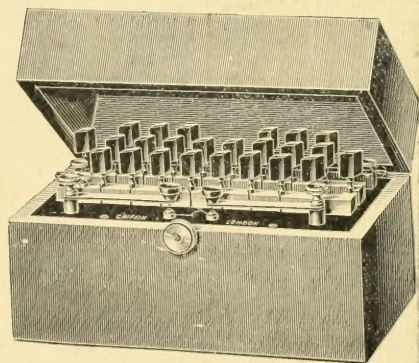
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From overseas we have obtained every assistance in our efforts to make our work accurate and complete; where we have sinned by omission it is rather from inadvertence on our part than from lack of information when it has been sought. To all, here and abroad, who have assisted in the making of Athena, we offer our sincere thanks.

In such a compilation errors are, unfortunately, unavoidable, especially in the initial volume, and we shall take it as a favour if these are pointed out to us. Again, some institutions which should rightly find a place in our pages are wanting. We cannot include every university and college, society and museum; but there are several which we may have omitted inadvertently, and to these we would ask that our attention be drawn—a remark which applies more especially to overseas institutions.

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T. A. W. Fulton, *Scientific Study of Fisheries*.  
A. W. Gibb, *Geology*.  
J. Goodwillie, *Mathematics*.  
W. W. Fyvie, *Natural Philosophy*.  
MacGregor Skene, *Vegetable Physiology*.

FACULTY OF DIVINITY.

Professors :

- H. Cowan, *Church History*.  
J. Gilroy, *Hebrew*.  
W. Fulton, *Systematic Theology*.

FACULTY OF LAW.

Professors :

- A. M. Stuart, *Law*.

Lecturers :

- H. A. Davidson, *Accounting and Business Methods*.  
R. H. Cowie, *Banking*.  
R. M. Williamson, *Constitutional Law and History*.  
A. C. Morrison, *Conveyancing*.  
G. Duncan, *International Law*.  
A. Blacklaw, *Procedure and Evidence (Law)*.  
A. Macdonald (Miss), *Public Finance*.  
J. E. Tocher, *Statistics, and Statistical Method*.

FACULTY OF MEDICINE.

Professors :

- M. Hay, *Forensic Medicine*.  
J. A. MacWilliam, *Physiology*.  
R. W. Reid, *Anatomy*.  
J. Marnock, *Surgery*.  
A. Mackintosh, *Medicine*.  
R. G. McKerron, *Midwifery*.  
T. Shennan, *Pathology*.  
C. R. Marshall, *Materia Medica*.

Lecturers :

- G. M. Duncan, *Bacteriology*.  
A. Low, *Embryology*.  
G. S. Melvin, *Physiology (Experimental)*.  
J. P. Kinloch, *Public Health*.  
G. A. Williamsen, *Tropical Medicine*.

FACULTY OF AGRICULTURE.

Professor :

- J. Hendrick, *Agriculture*.

Lecturers :

- W. J. Profeit, *Agriculture*.  
A. S. Watt, *Forest Botany and Forest Zoology*.  
P. Leslie, *Forestry*.  
J. Rennie, *Parasitology and Experimental Zoology*.  
W. Brown, *Veterinary Hygiene*.

**Post-Graduate Courses.**—Courses are conducted qualifying for the Diploma in Public Health, which is open to graduates of any University in the United Kingdom. There are well-equipped laboratories in most of the Departments in the Faculties of Medicine and Science, where special study and research may be carried on under the supervision of the Professor. A post-graduate Degree of Bachelor of Education (Ed.B.) has recently been instituted. Candidates must hold a Degree in Arts or Science of an approved University. The curriculum for Ed.B. extends over two academical years.

**Museums :**

The Anthropological and Egyptian Museums.

Departmental Museums in Natural History, Botany, Geology, Pathology, Surgery, Forensic Medicine, Materia Medica, Midwifery.

**Libraries.**—Library, 200,000 volumes.

At King's College (General).

At Marischal College (Medicine, Natural Science, Law.) *Librarian* ; P. J. Anderson.

Also Departmental and Class Libraries.

**ABERYSTWYTH (Wales).**

**UNIVERSITY COLLEGE OF WALES**, Sea Front, Aberystwyth. (1872.)

*Terms* : Three per year.

*Students* : 1,100.

**OFFICIALS.**

*President.*—Sir John Williams, Bart., M.D., D.Sc., G.C.V.O.

*Vice-Presidents.*—Major D. Davies, M.P.

Sir A. Garrod Thomas, M.D., D.L., J.P.

*Principal.*—John Humphreys Davis, M.A.

*Registrar.*—(Vacant.)

**PROFESSORS.**
**ARTS.**
**Professors :**

J. W. Marshall, *Greek*.

H. J. Rose, *Latin*.

(Vacant), *Hebrew and Arabic*.

(Vacant) *German*.

J. L. A. Barbier, *French Language and Literature and Romance Philology*.

J. W. H. Atkins, *English Language and Literature*.

E. Edwards, *History*.

T. S. Roberts, *Colonial History*.

E. A. Lewis, *Economics and Political Science*.

A. E. Zimmern, *International Politics*.

T. Gwynn Jones, *Welsh Literature*.

W. J. Jones, *Logic and Philosophy*.

T. A. Levi, *English Law*.

H. Walford Davies, *Music*.

C. R. Chapple, *Education*.

F. Watson

”

**Lecturers :**

E. D. T. Jenkins, *Greek and Latin*.

M. Brebner (Miss), *German*.

L. Winstanley (Miss), *English Language and Literature*.

E. A. Lewis, *Paleography and Diplo-*

F. Smith, *Education*. [matics.]

**Library.**—General College Library. *Librarian* : J. D. Williams, B.A.

**ADELAIDE (S. Australia).**

**UNIVERSITY OF ADELAIDE**, Adelaide, South Australia. (1874.)

*Terms* : Three per year.

**OFFICIALS.**

*Director.*—His Excellency the Governor.

*Chancellor.*—The Hon. Sir George John Robert Murray, K.C.M.G., B.A., LL.M.

*Vice-Chancellor.*—Professor William Mitchell, M.A., D.Sc.

*Registrar.*—Charles Reynolds Hodge.

*Assistant Registrar.*—Frederick William Eardley, B.A.

*Librarian.*—Robert John Miller Clucas, B.A.

**SCIENCE.**
**Professors :**

W. H. Young, *Pure Mathematics*.

G. A. Schott, *Applied Mathematics*.

B. Moriat Jones, *Chemistry*.

G. Owen, *Physics*.

W. J. Pugh, *Geology*.

J. L. Williams, *Botany*.

H. J. Fleure, *Geography and Anthropology*.

A. E. Jones, *Agriculture*.

R. G. Stapledon, *Agricultural Botany*.

**Lecturers :**

W. J. Johnston, *Pure Mathematics*.

T. Campbell James, *Chemistry*.

H. H. Paine, *Physics*.

R. D. Laurie, *Zoology*.

J. J. Griffith, *Agricultural Chemistry*.

R. Phillips

K. Sampson (Miss) *”Agricultural” Botany*.

**County Organizers of Agricultural Education :**

D. Thomas, Breconshire and Radnorshire.

D. J. Morgan, Cardiganshire.

J. Ll. Evans, Carmarthenshire.

J. L. John, Montgomeryshire.



## Degrees conferred :

*Degrees.*

B.A.	- -	Black silk lined with grey silk.
M.A.	- -	Black silk lined with dark grey silk.
LL.B.	- -	Black silk lined with blue silk.
LL.D.	- -	Dark blue lined with light blue silk.
M.B.	- -	Black silk lined with rose silk.
M.D.	- -	Rose silk lined with pale rose silk.
B.S.	- -	Black silk lined with rose silk.
D.S.	- -	Rose silk lined with pale rose silk.
B.Sc.	- -	Black silk lined with yellow silk.
D.Sc.	- -	Yellow silk lined with pale yellow silk.
B.E.	- -	Black silk lined with light brown silk.
M.E.	- -	Black silk lined with dark brown silk.
Mus.Bac.	-	Black silk lined with green silk.
Mus.Doc.	-	Green silk lined with dark green silk.

*Hoods.*

## PROFESSORS.

## Professors :

- H. D. Naylor, *Classics and Comparative Philology and Literature.*  
 W. Mitchell, *Philosophy.*  
 G. C. Henderson, *Modern History and English Language and Literature.*  
 R. W. Chapman, *Mathematics and Mechanics.*  
 K. Grant, *Physics.*  
 A. Watson, *Anatomy.*  
 Sir E. C. Stirling, *Physiology.*  
 E. H. Rennie, *Chemistry.*  
 T. G. B. Osborn, *Botany.*

## Lecturers :

- J. Crampton, *French Language.*  
 A. J. Schulz, *Education.*  
 H. Heaton, *Economics.*  
 H. W. Gartrell, *Mining Engineering.*  
 E. V. Clark, *Electric Engineering.*  
 W. Howchin, *Geology and Mineralogy.*  
 Sir D. Mawson, *Mineralogy and Petrology.*  
 W. T. Cooke, *Chemistry.*  
 H. H. Corbin, *Forestry.*  
 A. Mills Lea, *Forest Entomology.*  
 F. A. d'Arenberg, *Law of Evidence and Procedure.*  
 P. E. Johnstone, *Law of Contracts.*  
 E. W. Benham, *Law of Property.*  
 T. J. Brown, *Law of Wrongs.*  
 H. Heaton, *Economics and Commercial History.*  
 R. J. Miller Clucas, *Economic Geography.*

## Lecturers—Continued :

- R. N. Finlayson, *Industrial and Commercial Law.*  
 S. R. Booth, *Accountancy.*  
 H. Heaton, *Industrial Practice.*  
 R. M. Steele, *Commercial Practice.*  
 W. Ham, *Australian Industries.*  
 W. R. Cavenagh-Mainwaring, *Pathology.*  
 T. Borthwick, *Bacteriology.*  
 H. Swift, *Principles and Practice of Medicine and Therapeutics.*  
 J. C. Verco, *Principles and Practice of Medicine and Therapeutics.*  
 W. T. Hayward, *Materia Medica and Therapeutics.*  
 B. Poulton, *Principles and Practice of Surgery.*  
 F. S. Hone, *Clinical Medicine.*  
 A. M. Cudmore, *Clinical Surgery.*  
 J. A. G. Hamilton, *Gynecology.*  
 A. A. Lendon, *Obstetrics and Diseases of Children.*  
 A. M. Morgan, *Ophthalmic Surgery.*  
 G. A. Fischer, *Aural Surgery.*  
 R. S. Rogers, *Forensic Medicine.*  
 M. H. Downey, *Psychological Medicine.*  
 C. T. C. de Crespigny, *Practical Pathology and Histology.*  
 J. B. Gunson, *Medical Diseases of Children.*  
 H. S. Newland, *Surgical Diseases of Children.*  
 2 Assistant Lecturers, 3 Tutors, 3 Demonstrators.

## AFFILIATED INSTITUTION.

Perth Technical School, Western Australia,

**ROYAL SOCIETY OF SOUTH AUSTRALIA.****OFFICERS.***Patron.*—His Excellency Sir Henry L. Galway, K.C.M.G., D.S.O.*President.*—Sir Joseph C. Verco, M.D., F.R.C.S.*Vice-Presidents.*—

Major R. H. Pulleine, M.B.

Edwin Ashby, F.L.S., M.B.O.U.

*Hon. Treasurer.*—W. B. Poole.*Hon. Secretary.*—W. Rutt, C.E.*Members of Council.*

Prof. E. H. Rennie, M.A., D.Sc., F.C.S.

Prof. T. G. B. Osborn, M.Sc.

Capt. S. A. White, C.M.B.O.U.

Lieut.-Col. R. S. Rogers, M.A., M.D.

Prof. R. W. Chapman, M.A.,  
B.C.E.Prof. W. Howchin, F.G.S. (Editor  
and Representative)

Governor on Board of S.A. Library, Museum, etc.

In 1853 the Society (then and until 1880 known as the Adelaide Philosophical Society) was founded, and commenced to hold monthly meetings for the reading and discussion of papers on scientific subjects, which were published in a somewhat irregular form until 1878, when the first annual volume of its *Transactions and Proceedings* was issued in octavo in a form suitable for distribution to other learned Societies and Institutions in exchange for their publications. In 1880 permission was granted by H.M. Queen Victoria to assume the name "Royal Society of South Australia." Forty-two annual volumes of the *Transactions and Proceedings* and two volumes of *Memoirs* in quarto have been issued to date.

The membership of the Society comprises 10 Honorary Fellows, 5 Corresponding Members, 76 Fellows, and 1 Associate. The number of societies and institutions on the list for exchange of publications is at present 194. The library now contains 3,400 volumes and 1,600 pamphlets.

**AGRICULTURE, U.S. DEPARTMENT OF. See WASHINGTON.****AJMER (India).****THE GOVERNMENT COLLEGE**, Ajmer, India. (1868.)

Affiliated to the University of Allahabad.

*Terms* : July to April.*Students* : 110.**OFFICIALS.***Principal.*—E. F. Harris, B.A.*Officiating Principal.*—A. Miller, M.A.

8 Professors, 2 Demonstrators.

**Library.**—The College Library contains about 4,000 volumes. *Librarian* : Babu Manmohan Rai, B.A.

**ALBANY (New York).****UNIVERSITY OF THE STATE OF NEW YORK**, Albany, N.Y.

The University is the State Education Department, it exercises the general management and supervision of all public schools, and all the educational work of the State. It is governed and all its corporate powers are exercised by a Board of Regents serving without salary. The Regents confer certificates, diplomas, and degrees; they register both domestic and foreign institutions in terms of New York Standards, fix the values of degrees, etc., issued by institutions of other States and countries, and forwarded for entrance to schools, colleges, and professions in New York State.



REGENTS OF THE UNIVERSITY (with years when Terms expire).

- 1920. J. Byrne, B.A., LL.D., LL.B., New York.
- 1921. (Vacant.)
- 1922. C. S. Lord, M.A., LL.D., Brooklyn.
- 1923. (Vacant.)
- 1924. A. Moot, LL.D., Buffalo.
- 1925. C. B. Alexander, M.A., LL.B., LL.D., Litt.D., Tuxedo.
- 1926. P. T. Sexton, LL.B., LL.D. (Chancellor), Palmyra.
- 1927. A. V under Veer, M.D., M.A., Ph.D., LL.D. (Vice-Chancellor), Albany.
- 1928. W. G. Kellogg, B.A., LL.D., Ogdensburg.
- 1929. H. L. Bridgman, M.A., Brooklyn.
- 1930. W. Nottingham, M.A., Ph.D., LL.D., Syracuse.
- 1931. T. J. Mangan, M.A., Binghamton.

OFFICIALS.

*President of the University and Commissioner of Education.*—J. H. Finley, M.A., LL.D., L.H.D.

*Deputy Commissioner.*—Frank B. Gilbert.

*Assistant Commissioner for Elementary Education.*—G. M. Wiley, M.A.

*Assistant Commissioner and Director of Professional Education.*—A. S. Downing, M.A., L.H.D., LL.D.

*Assistant Commissioner for Secondary Education.*—C. F. Weelock, B.S., LL.D.

*Director of State Library.*—J. I. Wyer, jr., M.L.S., Ph.D.

*Director of Science and State Museum.*—J. M. Clarke, D.Sc., LL.D.

CHIEFS AND DIRECTORS OF DIVISIONS.

*Administration.*—H. C. Case.

*Agricultural and Industrial Education.*—L. A. Wilson.

*Archives and History.*—J. Sullivan, M.A., Ph.D.

*Attendance.*—J. D. Sullivan.

*Educational Extension.*—W. R. Watson, B.S.

*Examinations and Inspections.*—G. M. Wiley, M.A.

*Law.*—F. B. Gilbert, B.A., Counsel.

*Library School.*—J. I. Wyer, jr., M.L.S., Pd.D.

*School Buildings and Grounds.*—F. H. Wood, M.A.

*School Libraries.*—S. Williams, Pd.D.

*Visual Instruction.*—A. W. Abrams, Ph.B.

THE CARNEGIE INSTITUTION DEPARTMENT OF MERIDIAN ASTROMETRY,  
DUDLEY OBSERVATORY, Albany, New York. (1907.)

*Director.*—Benjamin Boss.

*Investigatory staff of 16 members.*

Objects are to secure accurate measures of the position of the stars visible in the southern hemisphere for use in connection with corresponding measures made at observatories in the northern hemisphere, in order to produce a complete catalogue of precision of all stars from the brightest down to those of the seventh magnitude, inclusive, for the entire celestial sphere.

ALBERTA, UNIVERSITY OF. See EDMONTON.

ALIGARH (U.P. India).

MOHAMMEDAN ANGLO-ORIENTAL COLLEGE, Aligarh, U.P. India. (1875.)

Affiliated to the University of Allahabad.

*Terms:* April to August.

*Students:* 170.

*Budget:* The Budget exceeds 280,000 Rupees.

OFFICIALS.

*Principal.*—Eia Uddin Ahmad, C.I.E., M.A., Ph.D., D.Sc.

*Librarian.*—Firoz Uddin Murad.

*Secretary.*—Syed Mohammed Ali.

Post-Graduate Courses in Arts, Science, and Oriental Languages.

**ALLAHABAD (India).**
**THE UNIVERSITY OF ALLAHABAD**, Allahabad, United Provinces of India. (1887.)

*Terms* : July to March.

**OFFICIALS.**
*Chancellor.*—The Hon. Sir Spencer Harcourt Butler, K.C.S.I., C.I.E.

*Vice-Chancellor.*—The Hon. Justice Theodore Caro Piggot, I.C.S.

*Registrar.*—M. G. V. Cole, M.A.

*Assistant Registrar.*—S. M. David, B.A.

**Degrees conferred :**

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - - -	Hood of black silk, edged with a band of amber yellow silk on both sides.
M.A. - - -	Hood of black silk, lined with a band of amber yellow silk.
Litt.D. - - -	Hood of white cloth, with scarlet silk lining.
LL.B. - - -	Hood of black silk, lined with pale blue silk.
LL.M. - - -	Hood of black silk, lined with deep blue silk.
LL.D. - - -	Hood of pale blue silk.
B.Sc. - - -	Hood of black silk, edged with a 3-inch band of crimson silk on both sides.
M.Sc. - - -	Hood of black silk, edged with a 6-inch band of crimson silk on both sides.
D.Sc. - - -	Hood of white silk.
Licentiate of Teaching -	Hood of black silk, lined with pearl-grey silk.
M.B. and B.S. -	Hood of black silk, lined with emerald-green silk.
M.D. - - -	Hood of black velvet, lined with emerald green silk.

**UNIVERSITY SCHOOL OF LAW.**
**PROFESSORS.**

J. C. Weir. R. K. Serabji.  
2 Lecturers.

**OTHER UNIVERSITY DEPARTMENTS.**
**Professors :**

L. F. Rushbrook-Williams, *Modern History*.

1 Reader, 2 Assistant Professors, 1 Research Assistant, 2 Research Scholars.

H. S. Jevons, *Economics*.

1 Reader, 1 Research Assistant, 1 Scholar.

**Post-Graduate Courses** leading to M.A. degree.

**Libraries.**—University Library. *Librarian* : S. Parshad.

**AFFILIATED INSTITUTIONS.**

Hislop College, Nagpur.	Meerut College, Meerut.
Ewing Christian College, Allahabad.	Isabella Thorburn College, Lucknow.
Indore Christian College, Indore.	Jaswant College, Jodhpur.
Government College, Ajmer.	Holkar College, Indore.
Bareilly College, Bareilly.	Woodstock College, Mussoorie.
Lucknow Christian College, Lucknow.	Kayastha Pathshala, Allahabad.
Robertson College, Jubbulpore.	St. Andrew's College, Gorakhpur.
Muir Central College, Allahabad.	Government Training College, Allahabad.
Queen's College, Benares.	Training College, Jubbulpore.
Canning College, Lucknow.	Victoria College, of Science, Nagpur.
Mohammedan Anglo-Oriental College, Aligarh.	St. John's College, Agra.
Agra College, Agra.	University School of Law, Allahabad.
Christ Church College, Cawnpore.	King George's Medical College, Lucknow.
Maharaja's College, Jaipur.	Daynand Anglo-Vedic College, Cawnpore.
Morris Memorial College, Nagpur.	European Girls' High School, Allahabad.
Victoria College, Gwalior.	All Saints Diocesan College, Naini Tal.



**EWING CHRISTIAN COLLEGE, Allahabad, United Provinces, India.**

*Terms* : Two a year.

*Students* : 500.

*Budget* : Annual Recurring Expenditure, Rs. 125,000.

**OFFICIALS.**

*President of the Board of Directors.*—Rev. J. J. Lucas, D.D., Katra Mission, Allahabad.

*Principal of College.*—Rev. C. A. R. Janvier, M.A., D.D.

*Vice-Principal.*—P. H. Edwards, M.A., Ph.D.

*Principal of Allahabad Agricultural Institute.*—S. Higginbottom, M.A., B.Sc. (Ag.).

*Vice-Principal of Allahabad Agricultural Institute.*—L. A. Kenoyer, M.A., Ph.D.

**PROFESSORS.**

**ARTS.**

**Professors :**

Rev. C. A. R. Janvier, *English Literature*.

C. D. Thompson, *Economics*.

N. B. Mitra, *Mathematics*.

N. C. Mukerji, *English and Ethics*.

K. M. Sircar, *English and History*.

H. T. Bose, *Logic and English*.

Rev. J. C. Manry, *Psychology*.

Rev. W. E. Weld, *Economics*.

T. C. Blaisdell, jr., *History*.

G. S. Acharya, *Sanskrit*.

(Vacant), *Persian*.

**Assistant Professors :**

R. K. Kumar, *Economics*.

S. P. Andrews, *History*.

**SCIENCE.**

**Professors :**

P. H. Edwards, *Physics*.

N. B. Mitra, *Mathematics*.

**Post-Graduate Courses.—**

Economics (including Economic Theory and Indian Economics) to the M.A. standard.

Philosophy: Logic, Metaphysics, Ethics, Psychology (including Physiological and Experimental Psychology), Indian Philosophy, the History of Philosophy.

**Libraries.—**

General Library of Ewing Christian College, 6,500 volumes, and libraries in connection with the various laboratories. *Librarian* : Vacant.

Library of Allahabad Agricultural Institute. *Librarian* : Rev. A. E. Parker.

**Museum.**—Economic Museum. *Curator* : C. D. Thompson.

**Professors—Continued :**

H. T. Avey, *Physics*.

W. Dudgeon (Miss), *Botany*.

C. C. Palit, *Chemistry*.

A. T. MacPherson, *Chemistry*.

(Vacant), *Zoology*.

**AGRICULTURE.**

**Professors :**

L. A. Kenoyer, *Economic Botany*.

W. Bembower, *Horticulture*.

G. S. Birch, *Animal Husbandry and Dairying*.

A. E. Parker, *Agronomy*.

R. L. Pendleton, *Extension in Gwalior State*.

C. C. Wisner, *Extension in Gwalior State*.

R. N. Chowdhury, *Chemistry and Physics*.

3 Readers, 5 Lecturers, 3 Demonstrators, and 4 other Assistants.

**AFFILIATED INSTITUTIONS.**

Affiliated to the University of Allahabad to the B.A. and B.Sc. Standards in all subjects. M.A. in Philosophy and in Economics.

The Allahabad Agricultural Institute grants its own certificate in agriculture.

**AMERICAN ANTIQUARIAN SOCIETY.** See WORCESTER.

**AMERICAN CHEMICAL SOCIETY.** See NEW YORK.

**AMERICAN COLLEGE.** See MADURA.

**AMERICAN FORESTERS SOCIETY.** See WASHINGTON.

**AMERICAN GEOGRAPHICAL SOCIETY.** See NEW YORK.

**AMERICAN HISTORICAL ASSOCIATION.** *See* WASHINGTON.

**AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.**  
*See* WASHINGTON.

**AMERICAN MATHEMATICAL SOCIETY.** *See* NEW YORK.

**AMERICAN MICROSCOPICAL SOCIETY.** *See* BELOIT.

**AMERICAN MUSEUM OF NATURAL HISTORY.** *See* NEW YORK.

**AMERICAN ORIENTAL SOCIETY.** *See* NEW YORK.

**AMERICAN PHILOSOPHICAL SOCIETY.** *See* PHILADELPHIA.

**AMERICAN RESEARCH, SCHOOL OF.** *See* SANTA FE.

### AMES (Iowa).

**IOWA STATE COLLEGE.** No particulars received.

**EXPERIMENT STATION, U.S. Department of Agriculture.**  
*Director.*—C. F. Curtiss.

### AMHERST (Massachusetts).

**AMHERST COLLEGE.** Amherst, Mass. (1821.)

*Terms:* First semester—September to February.

Second semester—February to June.

*Students:* 503.

*Budget:* \$300,000.

#### OFFICIALS.

*President.*—Alexander Meiklejohn.

*Dean.*—George D. Olds.

*Secretary of the Faculty.*—Thomas C. Esty.

*Recorder.*—Gladys A. Kimball.

*Treasurer.*—Harry W. Kidder.

**Degrees conferred.**—B.A., M.A.

#### PROFESSORS.

##### FACULTY OF ARTS.

###### Professors :

W. Cowles, *Latin Language and Literature.*

W. A. Stowell, *Romance Languages.*

H. de Forest Smith, *Greek.*

G. Churchill, *English Literature.*

W. Bigelow, *Music.*

J. Crook, *Economics.*

P. Phillips, *Hygiene and Physical Education.*

A. A. Mackimmie, *Spanish.*

C. Eastman, *German Language and Literature.*

###### Professors—Continued :

W. J. Newlin, *Philosophy.*

F. L. Thompson, *History.*

H. E. Smith, *Romance Languages.*

W. H. Hamilton, *Economics.*

S. Young, *English Literature.*

W. W. Stewart, *Economics.*

R. Frost, *English Literature.*

R. G. Gettell, *Political Science.*

A. P. Fitch, *History of Religion and Biblical Literature.*

H. P. Gallinger, *History.*

O. Manthey-Zorn, *German.* [ture.

A. Schinz, *French Language and Literature.*



**Associate Professors :**

- A. H. Baxter, *Romance Languages*.  
 R. F. Nelligan, *Hygiene and Physical Education*.  
 C. H. Toll, *Philosophy*.  
 C. E. Bennett, *Latin*.  
 G. F. Whicher, *English*.  
 H. W. Litchfield, *Latin*.  
 C. E. Ayres, *Philosophy*.

**FACULTY OF SCIENCE.**

**Professors :**

- A. Meiklejohn, *Logic and Metaphysics*.  
 A. L. Kimball, *Physics*.  
 G. D. Olds, *Mathematics*.  
 D. Todd, *Astronomy and Navigation*.

**Post-Graduate Courses.**—Courses leading to the M.A. degree.

**Libraries and Museums :**

The Converse Memorial Library, 300,000 volumes. *Librarian* : R. Stillman Fletcher.

The Mather Art Museum contains valuable examples of Ancient Art.

In the biology museum are the Adams collection of shells, a part of Audubon's celebrated collection of birds, a synoptic collection of the animal kingdom, and a collection of fossil vertebrates.

The geology museum has the Woods Cabinet, which contains about twenty-five thousand specimens of minerals, including the general American and European collections, the State Survey collections of New Hampshire, Vermont, Massachusetts, and Connecticut, and the Shepard meteorite collection.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Acting Director.*—F. W. Morse.

**AMRITSAR (India).**

**KHALSA COLLEGE**, Amritsar, Punjab. (1893.)

Affiliated to the University of the Punjab, Lahore.

**OFFICIAL.**

*Principal.*—G. A. Wathen.

**PROFESSORS.**

- G. A. Wathen, *English*.  
 W. H. F. Armstrong, *Chemistry*.  
 N. Singh, *Chemistry*.  
 A. C. C. Hervey, *English and History*.  
 A. Natha, *English and History*.  
 H. Singh, *English and Sanskrit*.  
 K. Singh, *English and Divinity*.  
 M. Hussain, *Persian and Arabic*.  
 H. Chand, *Mathematics*.

- D. Singh, *Mathematics*.  
 K. L. Bhakia, *Biology*.  
 C. Singh,  
 B. R. Clatterji, *History and Economics*.  
 T. Singh, *Philosophy*.  
 H. Singh, *Mathematics and Divinity*.  
 S. C. Singh, *Physics*.  
 Teja Singh, *English and Divinity*.  
 R. Sing, *Botany*.

**ANDOVER THEOLOGICAL SEMINARY.** See **CAMBRIDGE** (Mass.).

**ANNAPOLIS (Maryland).**

**SAINT JOHN'S COLLEGE**, Annapolis, Maryland, America. (1696.)

*Terms* : Two a year.

*Students* : 234.

**OFFICIALS.**

*Chancellor.*—E. C. Harrington, Governor of Maryland.

*Provost and President of Academic Department.*—T. Fell, Ph.D., LL.D., D.C.L.

*Registrar and Secretary.*—Miss S. Berry.

**Degrees conferred.**—B.A., B.Sc., M.A., M.Sc., Ph.D., L.H.D., LL.D., D.D.

## PROFESSORS.

## Professors :

T. Fell, *Moral Science*.  
 J. B. Rippere, *Latin*.  
 J. B. White, *Greek and Latin*.  
 B. H. Waddell, *Mathematics*.  
 R. H. Ridgely, *Biology*.  
 S. S. Handy, *English*.  
 H. B. Scarborough, *Drawing and Physics*.  
 C. W. Stryker, *History and Political Economy*.

## Professors—Continued :

D. Elliot, *Military Science and Tactics*.  
 L. F. Hildebrandt, *Modern Languages*.  
 W. F. Clayton, *Chemistry*.  
 W. L. Marcy, *Sanitation and Hygiene*.

## Assistant Professors :

T. L. Gladden, *Latin and Mathematics*.  
 R. E. Grove, *Physics and English*.  
 E. T. Fell, *English and History*.  
 V. Lentz, *Mathematics*.

**Library.**—Library Academy Department, 10,000 volumes. *Librarian* : R. E. Grove.

## AFFILIATED INSTITUTE.

The Arts and Sciences Department of the University of Maryland. (See Baltimore.)

## ANN ARBOR.

UNIVERSITY OF MICHIGAN. No particulars received.

## ANTIGONISH (Nova Scotia).

UNIVERSITY OF ST. FRANCIS XAVIER'S COLLEGE.

No particulars received.

ARCHEOLOGICAL INSTITUTE OF AMERICA. See WASHINGTON.

## ARMAGH (Ireland).

ARMAGH OBSERVATORY, Armagh. (1790.)

*Director.*—Rev. William Frederick Archdall Ellison, M.A., B.D., F.R.A.S.,  
 F.R. Met. Soc.

ARMSTRONG COLLEGE. See DURHAM.

ASIATIC SOCIETY OF BENGAL. See CALCUTTA.

ASTROPHYSICAL OBSERVATORY. See WASHINGTON.

## ATHENS (Georgia).

UNIVERSITY OF GEORGIA. No particulars received.

## ATHENS (Ohio).

OHIO UNIVERSITY, Athens, Ohio. (1804.)

*Terms* : Two semesters, three special terms, six weeks each.  
*Students* : 3,957. *Budget* : \$355,224,97.

## OFFICIALS.

*President.*—Alston Ellis, A.M., Ph.D., LL.D.  
*Dean of College of Liberal Arts.*—E. W. Chubb.  
*Dean of College of Normal College.*—J. J. Richeson.  
*Director of School of Commerce.*—C. M. Copeland.  
*Dean of Women.*—Irma E. Voigt.  
*Director of School of Music.*—A. S. Thompson.

**Degrees conferred.**—A.B. and B.S. in Education.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- E. W. Chubb, *English Literature*.  
 J. J. Richeson, *School Administration*.  
 D. J. Evans, *Latin*.  
 J. W. Taylor, *Greek*.  
 F. Treudley, *Philosophy and Psychology*. [logy.  
 H. R. Wilson, *English*.  
 F. S. Coultrap, *Art of Teaching*.  
 T. N. Hoover, *History*.  
 C. L. Martzoff, *History*.  
 W. L. Gard, *History and Principles of Education*.  
 M. T. Noss (Miss), *French*.  
 B. McC. Thompson, *Physiography*.  
 W. H. Cooper, *Public Speaking*.  
 H. D. Simpson, *Economics*.  
 G. R. McLaughlin, *Manual Training*.  
 F. V. Whitehouse, *Spanish*.  
 I. E. Ash, *Secondary Education*.  
 M. L. Stahl (Miss), *Drawing and Painting*.  
 M. J. Brison (Miss), *Public School Drawing*.  
 C. T. McLeod (Miss), *Kindergarten*.  
 M. Tough (Miss), *Home Economics*.

## Associate Professors :

- S. K. Mardis, *History of Education*.  
 E. J. Jones, *History and Civics*.

## Assistant Professors :

- M. E. Moore (Miss), *Latin*.  
 G. N. Mackinnon, *English*.

**Library.**—Carnegie Library. *Head Librarian* : C. G. Matthews. Six Assistants. No Post-Graduate Courses.

## Assistant Professors—Continued :

- C. E. Skinner, *Psychology and Paidology*.  
 B. L. Jefferson, *English*. [logy.  
 C. W. Gill, *English*.  
 M. J. Kimball, *Advertising and Salesmanship*.  
 C. H. Growden, *Psychology and Paidology*.  
 W. H. Fenzel, *Accounting and Business Administration*.  
 C. R. Stearns, *French and Spanish*.

## FACULTY OF SCIENCE.

## Professors :

- A. A. Atkinson, *Physics and Electrical Engineering*.  
 W. F. Mercer, *Biology and Geology*.  
 W. B. Bentley, *Chemistry*.  
 O. Chrisman, *Paidology and Psychology*.  
 L. J. Addicot, *Civil Engineering*.  
 W. F. Copeland, *Agriculture*.  
 W. A. Matheny, *Civic Biology and Botany*.  
 J. R. Morton, *Analytical Chemistry*.  
 R. L. Borger, *Mathematics*.  
 I. F. Stewart, *Mathematics*.

## Associate Professor :

- O. E. Dunlap, *Agriculture*.

## Assistant Professors :

- R. G. Webber, *Physics*.  
 F. B. Gullum, *Chemistry*.  
 O. E. McClure, *Physics*.  
 32 Instructors and 1 Assistant.

## AFFILIATED INSTITUTIONS.

State Normal College.

## AUBURN (Alabama).

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director*.—J. F. Duggar.

## AUCKLAND (New Zealand).

AUCKLAND UNIVERSITY COLLEGE, Auckland, New Zealand. (1882.)

*Terms* : Three per year.

## OFFICIALS.

See NEW ZEALAND UNIVERSITY.

Degrees and Hoods.—See NEW ZEALAND UNIVERSITY.

## PROFESSORS.

## Professors :

- H. S. Dettman, *Classics*.  
 C. W. Egerton, *English*.  
 H. W. Segar, *Mathematics*.  
 F. P. Worley, *Chemistry*.  
 G. Owen, *Physics*.  
 J. C. Johnson, *Biology*.

## Professors—Continued :

- W. E. Thomas, *Music*.  
 M. Walker, *Modern Languages*.  
 J. P. Grossman, *Economics and History*.  
 3 Assistants, 2 Demonstrators, 10 Lecturers.



**AUSTIN (Texas).**

**UNIVERSITY OF TEXAS.** No particulars received.

**AUSTRALIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.**  
See **SYDNEY.**

**BAHAWALPUR (India).**

**SADIQ-EGERTON COLLEGE,** Bahawalpur, Punjab. (1882.)

Affiliated to the University of the Punjab, Lahore.

**OFFICIALS.**

*Principal.*—A. Hamid, B.A.

*Librarian.*—Bashir Ahmad.

**PROFESSORS.**

A. Hamid, *English and Philosophy.*

A. Lahidie, *English and History.*

M. A. Khan, *English and Mathematics.*

H. Ahmad, *Arabic and Persian.*

Pt. R. Claran, *Sanskrit.*

**BALA (North Wales).**

**THE CALVINISTIC METHODIST OR WELSH PRESBYTERIAN THEOLOGICAL COLLEGE,** Bala, North Wales. (1837.)

*Terms:* Three each year: September to Christmas; Christmas to Easter; Easter to Midsummer.

*Registrar.*—Rev. J. T. Alun Jones.

**Degrees conferred.**—The College is an Associated College of the University of Wales. The curriculum is so arranged as:

1. To prepare candidates for the Christian Ministry.

2. To prepare for the Examinations in Theology prescribed by the University of Wales for the degree of B.D.

**PROFESSORS.**

Rev. D. Phillips, *Christian Doctrine and the Philosophy and History of Religion.*

Rev. W. Porter, *Hebrew and Old Testament Exegesis.*

Rev. J. O. Thomas, *Hellenistic Greek and New Testament Exegesis.*

Rev. R. Morris, *Church History.*

**BALIGANJ (Calcutta).**

**DIOCESAN COLLEGE,** Baliganj, Calcutta. (1907.)

College for Indian Ladies. Affiliated to the University of Calcutta.

*Terms:* Three a year.

*Students:* 105.

**Degrees conferred.**—As in Calcutta University.

**OFFICIAL.**

*Principal.*—Sister Mary Victoria, C.S.J.B.

**PROFESSORS.**

H. Jackson (Miss), *Botany.*

J. M. Kell (Miss), *English.*

E. Jackson (Miss), *Mathematics.*

Wright (Miss), *History.*

C. Dass (Miss), *Logic.*

N. Mukerji, *Economics.*

K. Kundu *Sanskrit.*

Pandit V. A. Mukerjee, *Sanskrit and Bengali.*

B. Hurst (Miss), *Training Class.*

**Post-Graduate Courses.**—For Bachelor of Training of the Calcutta University.

**Library.**—A College Library.

**BALTIMORE (Maryland).**

**JOHNS HOPKINS UNIVERSITY,** Baltimore, Maryland. (1876.)

*Terms:* In Philosophy and Engineering, 2 terms ("semesters")—October to February February to June. In Medicine and Hygiene, 3 terms ("trimesters")—October to December, January to March, April to June,

*Students* (1918-19): College of Arts and Sciences, 350; Department of Engineering, 269; Medical School, 382; School of Hygiene, 22; College of Arts and Sciences, 350  
 Department of Engineering, 269; Graduate School, 135.  
*Budget* (disbursement for all purposes, 1917-18): \$688,000.

# OFFICIALS.

*President*.—Frank J. Goodnow.  
*Dean of the College Faculty*.—John H. Latane.  
*Dean of the Medical Faculty*.—J. Whitridge Williams.  
*Director of the School of Hygiene and Public Health*.—William H. Welch.  
*Registrars*.—Thos. R. Ball and Geo. J. Coy.  
*Treasurer*.—W. Graham Boyce.  
*Librarian*.—M. Lee Raney.

**Degrees conferred**.—Bachelor of Arts, Bachelor of Engineering, Bachelor of Science, Bachelor of Science in Chemistry, Bachelor of Science in Hygiene, Master of Arts, Master of Engineering (Civil, Electrical, Mechanical), Doctor of Philosophy, Doctor of Medicine, Doctor of Public Health, Doctor of Science in Hygiene.

# PROFESSORS.

## FACULTY OF PHILOSOPHY.

### Professors :

P. Haupt, *Semitic Languages*.  
 M. Bloomfield, *Sanskrit and Comparative Philology*.  
 H. Wood, *German*.  
 J. W. Bright, *English Literature*.  
 H. E. Greene, *English*.  
 L. S. Hulburt, *Mathematics*.  
 J. S. Ames, *Physics*.  
 F. Morley, *Mathematics*.  
 W. J. A. Bliss, *Physics*.  
 H. F. Reid, *Dynamic Geology and Geography*.  
 R. W. Wood, *Experimental Physics*.  
 J. H. Hollander, *Political Economy*.  
 E. B. Mathews, *Mineralogy and Petrography*.  
 J. M. Vincent, *European History*.  
 W. W. Willoughby, *Political Science*.  
 D. S. Johnson, *Botany*.  
 H. Collitz, *Germanic Philology*.  
 H. S. Jennings, *Zoology*.  
 W. P. Mustard, *Latin*.  
 E. F. Buchner, *Education*.  
 J. B. Watson, *Experimental and Comparative Psychology*.  
 E. A. Andrews, *Zoology*.  
 B. E. Livingston, *Plant Physiology*.  
 A. O. Lovejoy, *Philosophy*.  
 C. K. Swartz, *Geology*.  
 G. E. Barnett, *Statistics*.  
 D. M. Robinson, *Classical Archeology and Epigraphy*.  
 J. E. Gilpin, *Chemistry*.  
 J. H. Latane, *American History*.  
 C. W. E. Miller, *Greek*.  
 K. Dunlap, *Experimental Psychology*.  
 J. C. W. Fraser, *Analytical Chemistry*.  
 G. R. Guild, *Military Science and Tactics*.  
 S. O. Mast, *Zoology*.  
 E. W. Berry, *Paleontology*.

### Associate Professors :

W. Kurrelmeyer, *German*.  
 A. H. Pfund, *Physics*.  
 B. F. Lovelace, *Chemistry*.  
 J. C. French, *English*.  
 A. Ember, *Semitic Languages*.  
 A. Cohen, *Mathematics*.  
 R. V. D. Magoffin, *Greek and Roman History*.  
 R. B. Roulston, *German*.  
 J. T. Singewald, jr., *Economic Geology*.  
 D. S. Blondheim, *French*.  
 W. A. Patrick, *Chemistry*.  
 R. P. Cowles, *Zoology*.

### Associates :

F. R. Blake, *Oriental Languages*.  
 H. Slonimsky, *Philosophy*.  
 F. E. Bamberger (Miss), *Education*.  
 G. Gruenbaum, *Romance Languages*.  
 F. D. Murnaghan, *Applied Mathematics*.  
 W. O. W. Thornton, *Political Economy*.

## FACULTY OF MEDICINE.

### Professors :

W. S. Halsted, *Surgery*.  
 J. J. Abel, *Pharmacology*.  
 W. H. Howell, *Physiology*.  
 J. W. Williams, *Obstetrics*.  
 L. F. Barker, *Clinical Medicine*.  
 W. S. Thayer, *Medicine*.  
 W. Jones, *Physiological Chemistry*.  
 A. Meyer, *Psychiatry*.  
 J. M. T. Finney, *Clinical Surgery*.  
 J. Howland, *Pediatrics*.  
 W. H. Lewis, *Physiological Anatomy*.  
 W. G. MacCallum, *Pathology*.  
 F. R. Sabin (Miss), *Histology*.  
 T. S. Cullen, *Clinical Gynecology*.  
 L. H. Weed, *Anatomy*.

**Associate Professors :**

- W. W. Russell, *Clinical Gynecology*.  
 R. L. Randolph, *Clinical Ophthalmology and Otolaryngology*.  
 T. B. Fletcher, *Clinical Medicine*.  
 J. C. Boodgood, *Clinical Surgery*.  
 M. Broedel, *Art as Applied to Medicine*.  
 W. S. Baer, *Clinical Orthopedic Surgery*.  
 D. R. Hooker, *Physiology*.  
 T. R. Boggs, *Clinical Medicine*.  
 J. T. Geraghty, *Clinical Urology*.  
 F. H. Baetjer, *Röntgenology*.  
 S. J. Crowe, *Clinical Laryngology*.  
 C. G. Guthrie, *Medicine*.  
 G. S. Heuer, *Surgery*.  
 A. K. Krause, *Medicine*.  
 D. W. Wilson, *Physiological Chemistry*.  
 R. H. Follis, *Clinical Surgery*.  
 T. R. Brown, *Clinical Medicine*.  
 A. R. Dochez, *Medicine*.  
 W. W. Palmer, *Medicine*.  
 C. D. Snyder, *Physiology*.  
 L. V. Hamman, *Clinical Medicine*.  
 E. A. Park, *Pediatrics*.  
 K. D. Blackfan, *Pediatrics*.  
 G. W. Corner, *Anatomy*.  
 C. M. Campbell, *Psychiatry*.

**Associates :**

- F. R. Smith, *Clinical Medicine*.  
 G. Le Roy Hunner, *Clinical Gynecology*.  
 L. P. Hamburger, *Clinical Medicine*.  
 J. H. M. Knox, jr., *Clinical Pediatrics*.  
 E. H. Richardson, *Clinical Gynecology*.  
 G. R. Austrian, *Clinical Medicine*.  
 W. A. Baetjer, *Clinical Medicine*.  
 P. D. Lamson, *Exper. Therapeutics*.  
 E. R. Strobel, *Clinical Dermatology*.  
 D. M. Davis, *Urology*.  
 G. E. Bennett, *Clinical Orthopedic Surgery*.  
 A. L. Bloomfield, *Medicine*. [ology.  
 S. Bayne-Jones, *Pathology and Bacteriology*.  
 G. L. Taneyhill, jr., *Clinical Neurology*.  
 C. Bagley, jr., *Experimental Neurology*.  
 C. M. Byrnes, *Clinical Neurology*.  
 S. R. Miller, *Clinical Medicine*.  
 E. W. Bridgman, *Medicine*.  
 W. A. Frontz, *Clinical Urology*.  
 C. C. Macklin, *Anatomy*.  
 R. S. Cunningham, *Anatomy*.  
 C. H. Henser, *Anatomy*.  
 H. H. Bullard, *Pathology*.  
 L. D. Felton, *Bacteriology*.

**Post-Graduate Courses.—**

1. Arts and Sciences, including Classical, Modern, and Oriental Languages and Archaeology, History, Political Economy and Political Science, Philosophy, Psychology, and Education, Mathematics, Physics, Chemistry, Geology and Mineralogy, Zoology, Botany, and Plant Physiology.
2. Medical Sciences.
3. Hygiene and Public Health.
4. Engineering (Civil, Electrical, Mechanical).

*Librarian :* McKendree L. Raney.

**Associates—Continued :**

- P. W. Clough, *Clinical Medicine*.  
 A. Keidel, *Clinical Medicine*.  
 W. E. Dandy, *Surgery*.  
 E. D. Plass, *Obstetrics*.  
 L. W. Ketron, *Clinical Dermatology*.  
 G. F. Powers, *Clinical Pediatrics*.  
 H. R. Slack, jr., *Clinical Laryngology*.

**Clinical Professors :**

- S. Theobald, *Ophthalmology*.  
 H. M. Thomas, *Neurology*.  
 J. W. Lord, *Dermatology*.  
 T. C. Gilchrist, *Dermatology*.  
 H. J. Berkley, *Psychiatry*.  
 H. H. Young, *Urology*.

**FACULTY OF HYGIENE AND PUBLIC HEALTH.****Professors :**

- [nology.  
 W. H. Welch, *Bacteriology and Immunology*.  
 W. H. Howell, *Physiology*.  
 E. V. McCollum, *Bio-Chemistry*.  
 R. Pearl, *Biometry and Vital Statistics*.

**Associate Professors :**

- W. W. Ford, *Bacteriology*.  
 C. G. Bull, *Immunology*.  
 D. Klein, *Bio-Chemistry*.  
 L. J. Reed, *Biometry and Vital Statistics*.

**Associates :**

- G. H. Robinson, *Bacteriology*.  
 R. A. Spaeth, *Physiology*. [istics.  
 J. R. Minor, *Biometry and Vital Statistics*.  
 R. W. Hegner, *Protozoology*.  
 W. W. Cort, *Helminthology*.  
 W. C. Moore, *Immunology*.  
 A. L. Meyer, *Physiology*.  
 R. R. Hyde, *Immunology*.

**FACULTY OF ENGINEERING.****Professors :**

- J. B. Whitehead, *Electrical Engineering*.  
 C. C. Thomas, *Mechanical Engineering*.  
 C. J. Tilden, *Civil Engineering*.

**Associate Professors :**

- A. G. Christie, *Mechanical Engineering*.  
 W. B. Kouwenhoven, *Electrical Engineering*.  
 J. H. Bringham, *Civil Engineering*.  
 J. H. Gregory, *Civil Engineering*.

**Associates :**

- M. W. Pullen, *Electrical Engineering*.  
 J. C. Smallwood, *Mechanical Engineering*.



## UNIVERSITY OF MARYLAND, Baltimore, Maryland, U.S.A. (1807.)

Terms : Two a year.

Students : 223.

## OFFICIALS.

Dean of Medical Department.—J. M. H. Rowland, M.D.

Dean of Dental Department.—T. O. Heatwole, M.D., D.D.S.

Dean of Pharmacy.—E. F. Kelly, Phar.D.

Dean of Law.—Hon. H. D. Harlan.

Degrees conferred.—D.D.S., Phar.D., LL.B.

## PROFESSORS.

## Professors :

- R. Winslow, *Surgery*.  
 L. E. Neale, *Obstetrics*.  
 C. L. Davies, *Anatomy*.  
 J. C. Hemmeter, *Clinical Medicine*.  
 A. M. Shipley, *Surgery*.  
 S. K. Merrick, *Diseases of the Throat and Nose*.  
 R. B. Warfield, *Surgery*.  
 G. Wilson, *Medicine*.  
 W. F. Lockwood, *Medicine*.  
 G. W. Dobbin, *Obstetrics and Gynecology*.  
 W. R. Stokes, *Bacteriology*.  
 H. Friedenwald, *Ophthalmology and Otology*.  
 A. C. Harrison, *Surgery*.  
 C. B. Gamble, *Medicine*.  
 W. S. Gardner, *Gynecology*.  
 S. McCleary, *Pathology*.  
 J. Friedenwald, *Gastro-Enterology*.  
 J. M. H. Rowland, *Obstetrics*.  
 H. Woods, *Ophthalmology and Otology*.  
 C. E. Simon, *Clinical Pathology*.  
 A. McGlannan, *Clinical Surgery and Surgical Pathology*.  
 J. S. Fulton, *State Medicine*.  
 H. Adler, *Clinical Medicine*.  
 T. C. Gilchrist, *Dermatology*.  
 F. Martin, *Clinical and Operative Surgery*.  
 C. G. Hill, *Psychiatry*.  
 A. C. Pole, *Descriptive Anatomy*.  
 J. D. Blake, *Clinical Surgery*.  
 C. O'Donovan, *Clinical Medicine and Pediatrics*.  
 G. M. Linthicum, *Diseases of the Rectum and Colon*.  
 W. B. Perry, *Clinical Gynecology*.  
 T. B. Marden, *Histology and Embryology*.  
 J. M. Hundley, *Clinical Gynecology*.  
 R. T. Taylor, *Orthopedic Surgery*.  
 J. R. Winslow, *Diseases of the Throat and Nose*.  
 J. E. Gichner, *Clinical Medicine and Physical Therapeutics*.  
 C. W. McElfresh, *Clinical Medicine*.  
 I. J. Spear, *Neurology and Clinical Psychiatry*.  
 E. N. Brush, *Psychiatry*.  
 O. H. Jones, *Hygiene and Public Health*.

## Professors—Continued :

- J. Ruhrah, *Pediatrics*.  
 C. F. Blake, *Proctology*.  
 F. D. Sanger, *Diseases of the Throat and Nose*.  
 B. McGlone, *Physiology*.  
 G. C. Lockard, *Clinical Medicine*.  
 S. J. Fort, *Materia Medica*.  
 C. E. Brack, *Clinical Obstetrics*.  
 H. G. Beck, *Clinical Medicine*.  
 A. Cotton, *Orthopedic Surgery and Roentgenology*.  
 A. C. Gillis, *Neurology and Clinical Psychiatry*.  
 J. H. Branham, *Clinical Surgery*.  
 B. P. Muse, *Clinical Obstetrics*.  
 W. T. Watson, *Therapeutics*.  
 C. L. Summers, *Clinical Pediatrics*.  
 H. R. Spencer, *Pathology*.  
 H. B. Wylie, *Physiological Chemistry*.  
 H. J. Walton, *Roentgenology*.  
 R. E. Myers, *Pharmacology*.  
 J. G. Jay, *Surgery*.  
 N. Winslow, "  
 P. Edmunds, *Genito-Urinary Diseases*.  
 W. Tarun, *Ophthalmology and Otology*.  
 W. D. Wise, *Surgery*.  
 E. B. Friedenwald, *Pediatrics*.  
 C. Riely, *Orthopedic Surgery*.  
 S. M. Cone  
 W. S. Smith, *Gynecology*.  
 J. W. Holland, *Surgery*.  
 A. J. Underhill, *Genito-Urinary Diseases*.  
 E. B. Freeman, *Gastro-Enterology*.  
 J. C. Lumpkin, *Surgery*.  
 T. F. Leitz, *Gastro-Enterology*.  
 J. W. Downey, *Otology*.

## Associate Professors :

- W. B. Wolf, *Genito-Urinary Diseases*.  
 H. Brent, *Gynecology*.  
 M. Rosenthal, *Genito-Urinary Surgery and Dermatology*.  
 H. C. Knapp, *Medicine*.  
 A. Samuels, *Gynecology*.  
 W. W. Requardt, *Surgery*.  
 G. W. Mitchell, *Diseases of the Throat and Nose*.  
 L. J. Rosenthal, *Proctology*.  
 J. R. Abercrombie, *Dermatology*.  
 C. C. Conser, *Physiology*.  
 H. J. Maldeis, *Clinical Pathology*.

**Associate Professors—Continued :**

- J. D. Reeder, *Proctology*.  
 H. C. Blake, *Clinical Surgery*.  
 R. P. Bay, " "  
 F. S. Lynn, *Surgery*.  
 G. M. Settle, *Neurology and Clinical Medicine*.  
 C. C. W. Judd, *Medicine*.  
 E. H. Hutchins, *Surgery*.  
 T. R. Chambers, "  
 H. B. Stone, "  
 R. W. Locher, *Operative and Clinical Surgery*.  
 J. K. B. E. Seegar, *Obstetrics*.  
 S. G. Davis, *Anesthesia*.  
 H. D. McCarthy, *Clinical Medicine*.  
 31 Associates, 2 Demonstrators, 20  
 Instructors, and 27 Assistants.

**THE DENTAL DEPARTMENT.****Professors :**

- T. O. Heatwole, *Dental Materia Medica and Therapeutics*.  
 J. W. Smith, *Dental Prosthesis*.  
 E. E. Cruzen, *Crown and Bridge Work and Ceramics*.  
 E. F. Kelly, *Chemistry and Metallurgy*.  
 E. Baskin, *Operative Dentistry and Orthodontia*.  
 A. H. Paterson, *Dental Technics*.  
 J. B. Robinson, *Clinical Dentistry and Dental Anatomy*.  
 B. M. Hopkinson, *Oral Hygiene and Dental History*.  
 R. P. Day, *Oral Surgery*.  
 R. L. Mitchell, *Bacteriology and Pathology*.  
 J. L. Wright, *Theoretical and Practical Anatomy*.  
 H. J. Maldeis, *Histology*.  
 1 Lecturer, 4 Instructors, 3 Demonstrators.

**LAW DEPARTMENT.****Professors :**

- A. Bagby, *Testamentary Law*.  
 R. Barton, *Commercial Law*.  
 F. Bramble, *Commercial Law, and Bills and Notes*.  
 J. W. Bryan, *Common Carriers*.

**Post-Graduate Courses.**—In all medical branches.

**Library.**—Medical Library. *Librarian :* Mrs. R. L. Briscoe.

**THE CARNEGIE INSTITUTION DEPARTMENT OF EMBRYOLOGY**, Johns Hopkins Medical School, Baltimore, Maryland. (1913.)

**OFFICIALS.**

*Director.*—Franklin P. Mall.

*Investigatory staff* of 5 members.

Researches chiefly concern human Embryology.

**Professors—Continued :**

- H. Bryant, *Practice in State Courts*.  
 W. C. Chesnut, *Insurance*.  
 W. B. Coe, *Title and Conveyancing*.  
 J. U. Dennis, *Personal Property, Including Bailments*.  
 E. T. Dickerson, *Contracts*.  
 E. Frank, *Torts*.  
 J. P. Gorter, *Pleading and Evidence*.  
 H. D. Harlan, *Domestic Relations*.  
 O. McH. Howard, *Equity Jurisprudence*.  
 A. L. Jackson, *Conflict of Laws, and International Law*.  
 S. H. Lauchheimer, *Bankruptcy and Banking Law*.  
 S. S. Janney, *Real Property*.  
 A. S. Niles, *Constitutional Law*.  
 E. O'Dunne, *Criminal Law and Medical Jurisprudence*.  
 A. C. Ritchie, *Elementary Law*.  
 J. F. Rose, *Jurisdiction and Procedure of the Federal Courts, Admiralty, Patents, Trade-marks and Copy-rights*.  
 G. R. Sappington, *Practice Court*.  
 M. A. Soper, *Corporations*.  
 C. A. Tucker, *Equity Procedure*.  
 J. N. Ulman, *Sales of Personal Property and Agency*.

**DEPARTMENT OF PHARMACOLOGY.****Professors :**

- D. M. R. Culbreth, *Materia Medica, Botany and Pharmacognosy*.  
 D. Base, *Chemistry and Vegetable Histology*.  
 H. P. Hynson, *Commercial Pharmacy and Store Practice*.  
 E. F. Kelly, *Theoretical and Applied Pharmacy*. (Dean of the Faculty.)  
 J. C. Wolf, *Dispensing*.  
 R. L. Mitchell, *Physiology and Hygiene*.  
 H. J. Maldeis, *Bacteriology*.

**Associate Professors :**

- C. C. Plitt, *Botany, Materia Medica and Vegetable Histology*.  
 F. Lentz, *Pharmacy*.  
 H. E. Wich, *Chemistry*.  
 1 Lecturer, 1 Demonstrator.

**GOUCHER COLLEGE, Baltimore, Maryland. (1885.)**

Goucher College is one of the six leading colleges for women in the United States. In the survey made by the United States Bureau of Education, six colleges for women were placed in Class I., among which was Goucher College. Only first-class undergraduate work is attempted. The students of Goucher College, however, show a very high percentage among the number of students at universities and post-graduate institutions.

*Terms, two semesters in school year.*

*Students (1918-19), 712.*

**OFFICIALS.**

*President.*—William Westley Guth, Ph.D.

*Dean.*—Eleanor L. Lord, Ph.D.

*Acting Dean.*—Eugene Newton Curtis, Ph.D.

*Assistant Dean.*—Ala. E. Winslow, A.M.

*Registrar.*—Carrie Mae Probst, A.B.

*Student Counsellor.*—Elizabeth C. Mason, A.B.

*Librarian.*—Eleanor W. Falley, B.S.

**Degree conferred.**—B.A.

**Professors :**

Clara L. Bacon, *Mathematics.*

Niels H. Debel, *Social Sciences.*

Raymond Philip Dougherty, *Biblical Literature.*

Hans Froelicher, *German.*

Annette B. Hopkins, *English.*

Jessie L. King, *Physiology.*

Ernest P. Kuhl, *English.*

Howard Huntley Lloyd, *Chemistry.*

William H. Longley, *Biology.*

Eleanor L. Lord, *History.*

Agnes Low Rogers, *Education.*

Samuel N. Taylor, *Physics.*

Thaddeus P. Thomas, *Social Science.*

Lilian Welsh, *Physiology and Hygiene.*

Ruth Wheeler, *Home Economics.*

**Associate Professors :**

Gertrude Carman Bussey, *Philosophy.*

Eugene Newton Curtis, *History.*

Herman Louis Ebeling, *Greek.*

**Associate Professors—Continued :**

Katherine Jeanne Gallagher, *History.*

Florence Parthenia Lewis, *Mathematics.*

Adeline Pellissier, *French.*

Stuart A. Queen, *Constructive Philanthropy.*

E. B. Reuter, *Sociology.*

Mary Wilhelmine Williams, *History.*

**Assistant Professors :**

Harry T. Baker, *English.*

Ethel Bowman, *Psychology.*

Ella Lonn, *History.*

Stella McCarty, *Education.*

Raleigh Webster Stone, *Economics.*

Emma Curtiss Tucker, *English.*

Ola Elizabeth Winslow, *English.*

Robert Shafer, *English.*

Wilfred A. Beardsley, *Romanic Languages.*

19 Instructors, 18 Assistants.

**Museums.—**

General Museum, containing valuable ancient and modern Indian collections.

Babylonian Museum, with over one thousand Babylonian and Syrian tablets.

Biological Museum.

**BANGOR (Wales).**

**UNIVERSITY COLLEGE OF NORTH WALES, Bangor. (1884.)**

A Constituent College of the University of Wales.

For the purposes of residence, the two Training Colleges and the two Theological Colleges (Congregational and Baptist) situated in Bangor.

*Terms :* Three a year.

*Students :* 500.

**Budget :**

Government Grant	..	..	..	..	£14,000
Total Receipts	..	..	..	..	£23,000
Expenditure	..	..	..	..	£24,000



## OFFICIALS.

*President.*—The Right Hon. Lord Kenyon, K.C.V.O.

*Principal.*—Sir H. R. Reichel, M.A., LL.D.

*Secretary and Registrar.*—J. E. Lloyd, M.A., D.Litt.

## Degrees conferred.—

Faculty of Arts: B.A., M.A., D.Litt., D.Phil.

„ Science: B.Sc., M.Sc., D.Sc.

„ Music: B.Mus., M.Mus., D.Mus.

„ Law: LL.B., LL.M., LL.D.

„ Theology: B.D., D.D.

„ Medicine: M.B., B.Ch., M.Ch., M.D.

*Hoods.*—Bachelors' hoods are of the Oxford form; Masters' and Doctors' hoods are made of black stuff or silk, except in the Faculty of Music in which the hoods are made of dark blue silk. Masters' hoods are made of black silk, and Doctors' hoods of scarlet cloth. Bachelors' hoods are bordered, and Masters' and Doctors' hoods lined with silk of the colours proper to their respective faculties.

The colours proper to the respective faculties are:

The Faculty of Arts: Mazarin blue shot with green.

The Faculty of Science: Bronze colour (yellow shot with black).

The Faculty of Music: Pearl colour (a shot silk of three hues).

The Faculty of Law: Red shot with purple.

The Faculty of Theology: Mazarin blue shot with red.

The Faculty of Medicine: Green shot with black, edged with white.

## PROFESSORS.

## Professors : ARTS.

T. Hudson-Williams, *Greek*.

E. V. Arnold, *Latin*.

H. G. Wright, *English Language and Literature*.

Sir J. Morris Jones, *Welsh*.

O. H. Fynes-Clinton, *French and Romance Philology*.

T. W. Davies, *Semitic Languages*.

J. E. Lloyd, *History*.

Sir H. R. Reichel, *Constitutional History*.

J. Gibson, *Logic and Philosophy*.

R. L. Archer, *Education*.

## Lecturers :

A. S. Turberville, *History*.

A. Paterson (Miss), *Education*.

R. Richards, *Economics*.

I. Williams, *Welsh Literature*.

## Professors : SCIENCE.

G. H. Bryan, *Mathematics*.

E. Taylor Jones, *Physics*.

## Professor —Continued :

K. J. P. Orton, *Chemistry*.

R. W. Phillips, *Botany*.

P. J. White, *Zoology*.

R. G. White, *Agriculture*.

F. Story, *Forestry*.

## Advisers :

R. Alan Roberts, *Agricultural Botany*.

G. W. Robinson, *Agricultural Chemistry*.

## Lecturers :

W. E. H. Berwick, *Mathematics*.

G. B. Mathews, *Mathematics*.

W. Morris Jones, *Physics*.

E. Robinson, *Chemistry*.

G. Walworth, *Agricultural Chemistry*.

T. Whitehead, *Agricultural Botany*.

## County Organisers :

I. Jones, *Agriculture*.

G. Jones „

20 Assistant Lecturers, 18 Instructors, 6 Instructors.

**Post-Graduate Courses.**—Provision is made for post-graduate work in all subjects taught at the College. Special facilities are provided for research in Welsh History, the Celtic Languages, and cognate subjects.

## Libraries.—

Arts and Welsh Library.

Science and Technical Library. 50,000 volumes. *Hon. Librarian* : J. E. Lloyd, M.A., D.Litt.

**Museum.**—College Museum. *Curator* : P. J. White, M.B., F.R.S.E.

**BANGOR JOINT SCHOOL OF UNIVERSITY THEOLOGICAL STUDIES, Bangor.**

- (a) The Bala-Bangor Independent College. (1841.)  
 (b) The North Wales Baptist College. (1862).

For the purposes of teaching the B.D. Syllabus of the University of Wales, the Staffs of the two Colleges are united, and the two Colleges together constitute one of the Associated Theological Colleges in the University of Wales, under the title, the "Bangor Joint School of University Theological Studies."

*Terms* : Three per year.

*Students* : 60.

**OFFICIAL.**

*Principals*.—T. Rees, M.A. (Independent College).  
 S. Morris, M.A. (Baptist College).

**Degrees conferred.**—B.D. degree of the University of Wales.

**PROFESSORS.**

T. Rees, *Christian Doctrine and Philosophy of Religion*.  
 T. Rhys, *New Testament Exegesis*.  
 J. Morgan Jones, *History of the Christian Church and Christian Education*.

S. Morris, *New Testament Greek*.  
 J. T. Evans, *Hebrew*.  
 (Vacant), *Homiletics and Pastoral Theology*.

**Post-Graduate Courses.**—The work is all of a post-graduate nature. All B.D.'s of Wales must first have an Arts or Science degree.

**Libraries.**—Each of the two Colleges has its own Library of Theological and Philosophical books.

**AFFILIATED INSTITUTIONS.**

The two Colleges are distinct institutions, but are amalgamated for all purposes of teaching, and in the University of Wales form one of its Associated Colleges.

**BANKURA (India).**

**WESLEYAN COLLEGE, Bankura, Bengal. (1903.)**

*Terms* : Those of the Calcutta University.

*Students* : 412.

**OFFICIAL**

*Principal*.—A. E. Brown, M.A., B.Sc.

**PROFESSORS.**

Rev. A. E. Brown, *Mathematics*.  
 Rev. E. J. Thompson, *English*.  
 Rev. A. R. Spooner, "  
 A. E. Brown (Mrs), "  
 B. B. Banerji, "  
 S. Karmakar, *Mathematics*.  
 R. S. Ghosh, *Sanskrit*.

A. M. Kabyatirtha, *Sanskrit*.  
 J. C. Banerji, *Economics*.  
 J. C. Guha, *History*.  
 R. C. Sen, *Philosophy*.  
 S. S. Banerji, *Logic*.  
 R. C. Banerji, *Physics*.  
 P. K. Banerji, *Chemistry*.

**BARBADOS (West Indies).**

**CODRINGTON COLLEGE, Barbados. (1710.)**

Lieut-Col. Christopher Codrington, Captain-General of the Leeward Islands, left his mansion and estates to S.P.G. in 1710 for the purpose of founding a college for the evangelisation of the negro population.

Affiliated to Durham University, England.

*Terms* : Three per year—October to June. *Students* : 16.

*Principal*.—Rev. J. C. Wippell, M.A. (Ox.) B.D., (Lond.).

Degrees and Hoods as Durham University.

PROFESSORS.

Rev. E. J. Lee, <i>Hebrew and Theology</i> .		O. Emitage, <i>Mathematics</i> .
W. C. Dunlop, <i>Classics</i> .		B. Clarke, <i>Medicine</i> .

Post-Graduate Courses.—B.D. Durham.

Institute.—Rawle Training Institute for male and female Elementary Teachers, run in connection with the College.

College Museum.

Library, about 6,000 volumes.

IMPERIAL DEPARTMENT OF AGRICULTURE, Barbados. (1898.)

STAFF.

Imperial Commissioner of Agriculture for the West Indies.—Sir Francis Watts, K.C.M.G., D.Sc., F.I.C., F.C.S.

Entomologist.—H. A. Ballou, M.Sc.

Mycologist.—W. Nowell, D.I.C.

Scientific Assistant.—W. R. Dunlop.

Chief Clerk.—A. G. Howell.

The Imperial Commissioner of Agriculture is in administrative charge of the botanic and experiment stations, maintained for the distribution of economic plants and the improvement of sugar, cacao, lime fruit, cotton, and other crops, and of the agricultural schools and local experiment plots at Grenada, St. Vincent, St. Lucia, Dominica, Montserrat, Antigua, St. Kitts-Nevis, and the Virgin Islands. He visits these Colonies when required to afford assistance in regard to the administration of the local agricultural departments, the outbreak of diseases, and the general development of planting industries. His services are also available as Consulting Officer in agricultural matters to the Governments of Jamaica, British Guiana, Trinidad, British Honduras, the Bahamas, and Bermuda.

Publications.—

The West Indian Bulletin (quarterly).

The Agricultural News (fortnightly.)

BATON ROUGE (Louisiana).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—W. R. Dodson.

BEDFORD COLLEGE FOR WOMEN. See LONDON.

BEHAR NATIONAL COLLEGE. See PATNA.

BELFAST.

QUEEN'S UNIVERSITY, Belfast. (1845.)

Terms : Three per year.

OFFICIALS.

Visitor.—His Majesty the King.

Chancellor.—The Right Hon. the Earl of Shaftesbury, K.C.V.O., K.P., LL.D.

Pro-Chancellors.—

Sir H. Shaw Wilkinson, LL.D., D.L.

Prof. Sir Samuel Dill, M.A., Litt.D., LL.D.

The Right Hon. Sir J. Newell Jordan, M.A., K.C.B., K.C.M.G., G.C.I.E.

President and Vice-Chancellor.—The Rev. Thomas Hamilton, M.A., D.D., LL.D.

Deans of Faculties :

Arts.—Prof. A. C. Dixon, M.A., Sc.D., F.R.S.

Science.—(Vacant).

Law.—Prof. J. S. Baxter, LL.D.

Medicine.—Prof. Wm. St. Clair Symmers, M.B.

Commerce.—Prof. H. O. Meredith, M.A., M.Com.

Registrar.—Prof. Thomas Sinclair, C.B., M.D., M.Ch., F.R.C.S.Eng.

Secretary.—John M. Finnegan, B.A., B.Sc.

Bursar.—John Green, C.A.



PROFESSORS.

Professors :

Sir S. Dill, *Greek*.  
 R. M. Henry, *Latin*.  
 A. C. Dixon, *Mathematics*.  
 G. G. Smith, *English Literature*.  
 D. L. Savory, *French*.  
 J. E. Todd, *Modern History*.  
 R. A. Williams, *German*.  
 H. O. Meredith, *Economics*.  
 J. Laird, *Logic and Metaphysics*.  
 W. J. McCallister, *Education*.  
 W. B. Morton, *Physics*.  
 G. Wilson, *Zoology*.  
 (Vacant), *Botany*.  
 F. H. Hummel, *Civil Engineering*.  
 J. A. Strahan, *Jurisprudence and Roman Law*.  
 J. S. Baxter, *English Law*.  
 T. H. Milroy, *Physiology*.  
 W. St. C. Symmers, *Pathology*.  
 T. Sinclair, *Surgery*.  
 J. A. Lindsay, *Medicine*.  
 Sir J. Byers, *Midwifery*.  
 T. Walmsley, *Anatomy*.  
 A. W. Stewart, *Chemistry*.

Lecturers :

A. O. Belfour, *English Language*.  
 Rev. F. W. O'Connell, *Celtic*.

Lecturers—Continued :

C. Gill, *Economic History*.  
 J. A. Dorward, *Moral Philosophy and History of Philosophy*.  
 Rev. D. O'Keefe, *Scholastic Philosophy*.  
 L. Walker, *Music*.  
 R. T. Beatty, *Physics*.  
 J. Wylie  
 A. K. Macbeth, *Organic Chemistry*.  
 A. R. Derryhouse, *Geology and Geography*.  
 (Vacant), *Commercial Geography*.  
 J. A. Milroy, *Bio-Chemistry*.  
 J. A. Craig, *Ophthalmology and Otology*.  
 W. J. Wilson, *Hygiene and Sanitary Science*.  
 W. St. Clair Symmers, *Medical Jurisprudence*.  
 T. Houston, *Medical Jurisprudence*.  
 P. T. Crymble, *Applied Anatomy*.  
 H. W. Bailie, *Public Health Administration*.  
 (Vacant), *Pharmacology*.  
 H. Oughton, *Accountancy*.  
 4 Clinical Lecturers, 1 Teacher.

BELOIT (Wisconsin).

BELOIT COLLEGE. No particulars received.

THE AMERICAN MICROSCOPICAL SOCIETY, Beloit College, Beloit, Wisconsin. (1878.)

OFFICIALS.

*President*.—Prof. L. E. Griffin, University of Pittsburg, Pittsburg, Pa.

*Secretary*.—Prof. Paul S. Welch, University of Michigan, Ann Arbor, Mich.

Publishes its Transactions as a Quarterly Journal. Is now in its 38th Volume.

*Object* : The encouragement and publication of research in microscopy and in the fields served by the microscope.

Endowment fund in aid of research, \$6,000.

BERKELEY (California).

UNIVERSITY OF CALIFORNIA, Berkeley, California. (1860.)

Sessions : Two a year.

OFFICIALS.

*President*.—B. I. de Wheeler.

*Secretary*.—Morse A. Cartwright.

*Librarian*.—H. L. Leupp, A.B.

Degrees conferred.—A.B., B.S. (in Commerce, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry), Gr.Arch., Gr.Ed., J.D., M.D., Gr.P.H., D.D.S., Ph.C., LL.B., Ph.G.

## PROFESSORS.

COLLEGE OF LETTERS AND  
SCIENCE.

## Professors :

- A. L. Kroeber, *Anthropology*.  
 A. O. Leuschner, *Astronomy*.  
 R. T. Crawford, *Practical Astronomy*.  
 W. R. Bloor, *Biochemistry*.  
 W. A. Setchell, *Botany*.  
 W. L. Jepson, *Dendrology*.  
 C. B. Lipman, *Soil Chemistry and Bacteriology*.  
 H. Kower, *Drawing*.  
 C. M. Gayley, *English Language and Literature*.  
 W. M. Hart, *English Philology*.  
 C. W. Wells, *English Composition*.  
 B. P. Kurtz, *English*.  
 R. T. Holbrook, *French*.  
 A. J. Carnoy, *Romanic Philology*.  
 H. K. Schilling, *German Language and Literature*.  
 C. Paschall, *German*.  
 J. T. Allen, *Greek*.  
 I. M. Linforth, *Greek*.  
 H. E. Bolton, *American History*.  
 E. I. McCormac, *American History*.  
 L. J. Paetow, *Medieval History*.  
 W. A. Merrill, *Latin Language and Literature*.  
 E. K. Rand, *Classical Literature*.  
 L. J. Richardson, *Latin*.  
 E. T. Williams, *Oriental Languages and Literature*.  
 C. H. Rieber, *Logic*.  
 G. M. Stratton, *Psychology*.  
 G. P. Adams, *Philosophy*.  
 F. L. Kleeberger, *Physical Education*.  
 W. E. Magee, *Physical Culture*.  
 D. P. Barrows, *Political Science*.  
 E. Elliott, *International Law and Politics*.  
 T. H. Reed, *Municipal Government*.  
 M. C. Flaherty, *Forensics*.  
 G. R. Noyes, *Slavic Languages*.  
 R. Schevill, *Spanish*.  
 C. A. Kofoid, *Zoology*.  
 W. E. Ritter, "  
 S. J. Holmes, "  
 J. F. Daniel, "  
 E. P. Lewis, *Physics*.  
 E. E. Hall, "  
 R. S. Minor, "  
 M. W. Haskell, *Mathematics*.  
 D. N. Lehmer, "  
 F. Cajori, *History of Mathematics*.  
 C. A. Noble, *Mathematics*.  
 T. M. Putnam, "  
 R. T. Legge, *Hygiene*.  
 J. T. Nance, *Military Science and Tactics*.  
 R. S. Holway, *Physical Geography*.

## Professors—Continued :

- A. C. Lawson, *Mineralogy and Geology*.  
 G. D. Louderback, *Geology*.  
 J. C. Merriam, *Paleontology and Historical Geology*.  
 A. S. Eakle, *Mineralogy*.  
 F. P. Gay, *Pathology*.

## Associate Professors :

- E. W. Gifford (associate curator of the Anthropology Museum).  
 O. M. Washburn, *Classical Archeology*.  
 M. F. Patterson (Miss), *Household Art*.  
 T. F. Sanford, *English Literature*.  
 H. L. Bruce, *English Composition*.  
 L. M. Turner, *French*.  
 F. J. Teggart, *History*.  
 W. A. Morris, *English History*.  
 C. E. Chapman, *Latin-American and Californian History*.  
 A. F. Morgan (Miss), *Household Science*.  
 C. Price, *Latin*.  
 H. C. Nutting, *Latin*.  
 M. E. Deutsch, "  
 C. D. von Neumayer, *Public Speaking*.  
 A. W. Ryder, *Sanskrit*.  
 W. Popper, *Semitic Languages*.  
 S. G. Morley, *Spanish*.  
 J. Grinnell, *Zoology*.  
 F. B. Sumner, "  
 W. J. Raymond, *Physics*.  
 J. H. McDonald, *Mathematics*.  
 J. N. Force, *Epidemiology*.  
 G. Y. Rusk, *Pathology*.  
 I. C. Hall, *Bacteriology*.

## Assistant Professors :

- P. Radin, *Anthropology*.  
 S. Einarsson, *Practical Astronomy*.  
 C. L. A. Schmidt, *Biochemistry*.  
 N. L. Gardner, *Botany*.  
 T. H. Goodspeed, "  
 F. J. Smiley, *Economic Botany*.  
 C. C. Judson, *Antique Drawing*.  
 W. J. Wythe, *Mechanical Drawing*.  
 E. Neuhaus, *Decorative Design*.  
 P. W. Nahl, *Freehand Drawing and Art Anatomy*.  
 H. E. Cory, *English Composition*.  
 A. G. Brodeur, *English Philology*.  
 R. W. Gordon, *English Composition*.  
 S. J. Hume, *Dramatic Literature and Art*.  
 G. A. Smithson, *English*.  
 L. Bacon, *English*.  
 J. T. Clark, *French*.  
 P. B. Fay, "  
 A. Solomon, "  
 G. M. Calhoun, *Greek*.  
 H. I. Priestley, *Mexican History*.

**Associate Professors—Continued :**

- K. C. Leebrick, *History*.  
 J. R. Van Nostrand, *Ancient History*.  
 R. Okey (Miss), *Household Science*.  
 T. Petersson, *Latin*.  
 E. G. Stricklen, *Music*.  
 W. Brown, *Psychology*.  
 C. I. Lewis, *Philosophy*.  
 J. Loewenberg, *Philosophy*.  
 O. L. Bridgman (Miss), *Abnormal Psychology*.  
 R. Elliot (Miss), *Physical Education*.  
 S. R. Davis (Miss), *Physical Education*.  
 D. E. Watkins, *Public Speaking*.  
 N. B. Drury, *Forensics*.  
 C. Bransby, *Spanish*.  
 E. Buceta                   "  
 J. A. Long, *Embryology*.  
 F. P. Regan, *Zoology*.  
 L. T. Jones, *Physics*.  
 B. L. Clark, *Paleontology*.  
 B. A. Bernstein, *Mathematics*.  
 F. Irwin, *Mathematics*.  
 T. Buck                   "  
 R. L. Cunningham (Miss), *Hygiene and Physician for Women*.  
 L. K. Underhill, *Military Science and Tactics*.  
 N. E. Fiske, *Military Science and Tactics*.  
 O. C. Nichols, *Military Science and Tactics*.  
 C. D. O'Sullivan, *Military Science and Tactics*.  
 7 Lecturers, 68 Instructors, 33 Assistants, and 6 Teaching Fellows.

**COLLEGE OF COMMERCE.**

**Professors :**

- C. C. Plehn, *Finance*.  
 H. R. Hatfield, *Accounting*.  
 S. Daggett, *Railroad Economics*.  
 L. Hutchinson, *Commerce*.  
 J. B. Peixotto (Miss), *Social Economics*.  
 I. B. Cross, *Economics*.

**Associate Professors :**

- L. W. Stebbins, *Social Economy*.  
 S. Blum, *Economics*.

**Assistant Professors :**

- W. Brown, *Psychology*.  
 F. R. Macaulay, *Economics*.  
 4 Instructors, 4 Lecturers, 1 Assistant.

**COLLEGE OF AGRICULTURE.**

**Professors :**

- T. F. Hunt, *Agriculture*.  
 H. E. Van Norman, *Dairy Management*.  
 H. J. Webber, *Plant Breeding*.  
 M. E. Jaffa, *Nutrition*.  
 C. W. Woodworth, *Entomology*.  
 R. E. Smith, *Plant Pathology*.  
 J. E. Coit, *Citriculture*.

**Professors—Continued :**

- C. F. Shaw, *Soil Technology*.  
 J. W. Gregg, *Floriculture and Landscape Gardening*.  
 J. W. Gilmore, *Agronomy*.  
 F. T. Bioletti, *Viticulture and Enology*.  
 W. T. Clarke, *Agricultural Extension*.  
 J. S. Burd, *Agricultural Chemistry*.  
 C. B. Lipman, *Soil Chemistry and Bacteriology*.  
 C. M. Haring, *Veterinary Science*.  
 E. B. Babcock, *Genetics*.  
 G. H. True, *Animal Husbandry*.  
 J. T. Barrett, *Plant Pathology*.  
 F. W. Woll, *Animal Nutrition*.  
 W. Mulford, *Forestry*.  
 W. P. Kelley, *Agricultural Chemistry*.  
 D. T. Mason, *Forestry*.  
 H. J. Quayle, *Entomology*.  
 E. Mead, *Rural Institutions*.  
 H. S. Reed, *Plant Physiology*.  
 F. Adams, *Irrigation Investigations*.  
 C. L. Roadhouse, *Dairy Industry*.  
 L. D. Batchelor, *Orchard Management*.  
 H. S. Fawcett, *Plant Pathology*.  
 J. C. Whitten, *Pomology*.  
 W. L. Howard                   "  
 W. G. Hummel, *Agricultural Education*.  
 B. H. Crocheron, *Agricultural Extension*.  
 R. L. Adams, *Farm Management*.

**Associate Professors :**

- W. T. Horne, *Plant Pathology*.  
 E. J. Lea, *Nutrition*.  
 W. B. Herms, *Parasitology*.  
 J. E. Dougherty, *Poultry Husbandry*.  
 G. H. Hart, *Veterinary Science*.  
 P. B. Kennedy, *Agronomy*.  
 S. S. Rogers, *Olericulture*.  
 S. H. Beckett, *Irrigation Practice*.  
 F. L. Griffin, *Agricultural Education*.  
 J. I. Thompson, *Animal Husbandry*.  
 J. Traum, *Veterinary Science*.  
 J. W. Nelson, *Agricultural Extension*.  
 D. R. Hoagland, *Agricultural Chemistry*.  
 T. F. Hunt, *Agricultural Extension*.  
 C. W. Rubel                   "                   "  
 D. Bruce, *Forestry*.  
 F. M. Hayes, *Veterinary Science*.

**Assistant Professors :**

- B. A. Madson, *Agronomy*.  
 W. E. Packard, *Agricultural Extension*.  
 W. V. Cruess, *Zymology*.  
 G. R. Stewart, *Agricultural Chemistry*.  
 O. J. Kern, *Agricultural Education*.  
 R. S. Vaile, *Orchard Management*.  
 W. Metcalf, *Forestry*.  
 E. H. Smith (Miss), *Plant Pathology*.  
 E. C. Van Dyke, *Entomology*.  
 W. F. Gericke, *Soil Chemistry*.



**Assistant Professors—Continued :**

- A. Smith, *Soil Technology*.  
 R. E. Clausen, *Genetics*.  
 E. O. Essig, *Entomology*.  
 V. C. Bryant, *Agricultural Extension*.  
 G. P. Gray, *Entomology*.  
 H. S. Baird, *Dairy Industry*.  
 G. W. Hendry, *Agronomy*.  
 A. H. Hendrickson, *Pomology*.  
 W. P. Tufts, *Pomology*.  
 P. L. Hibbard, *Agricultural Chemistry*.  
 W. H. Heileman, *Agricultural Extension*.  
 W. W. Mackie, *Agronomy*.  
 T. Tavernetti, *Farm Practice*.  
 W. W. Weir, *Soil Technology*.  
 F. J. Veihmeyer, *Irrigation Investigations*.  
 F. C. H. Flossfeder, *Viticulture*.  
 E. L. Overholser, *Pomology*.  
 S. B. Freeborn, *Entomology*.  
 C. F. Elwood, *Agricultural Extension*.  
 E. C. Voorhies, *Animal Husbandry*.  
 W. E. Lloyd, *Poultry Husbandry*.  
 L. J. Fletcher, *Agricultural Engineering*.  
 H. G. Eddy (Miss), *Agricultural Extension*.  
 S. H. Davisman, *Agricultural Education*.  
 E. Fritz, *Forestry*.  
 H. J. Baade, *Agricultural Extension*.  
 R. M. Hagen       "       "  
 B. J. Jones       "       "  
 M. A. W. Lee       "       "  
 G. E. Merrill       "       "  
 C. S. Myszka       "       "  
 L. B. Smith       "       "  
 R. N. Wilson       "       "  
 P. Talbot       "       "  
 H. A. Weinland       "       "  
 C. M. Conner       "       "  
 J. F. Wilson, *Animal Husbandry*.  
 A. R. C. Haas, *Plant Physiology*.  
 A. H. Hoffman, *Agricultural Engineering*.  
 23 Instructors, 2 Assistants.

**COLLEGE OF MECHANICS.****Professors :**

- C. L. Cory, *Electrical Engineering*.  
 J. N. Le Conte, *Engineering Mechanics*.  
 B. F. Raber, *Mechanical Engineering*.  
 B. M. Woods, *Aerodynamics*.

**Associate Professor :**

- H. B. Langille, *Machine Design and Mechanical Drawing*.

**Assistant Professors :**

- L. N. Robinson, *Electrical Engineering*.  
 G. L. Greves       "       "  
 F. H. Cherry       "       "  
 A. Press       "       "  
 A. B. Domonoske, *Mechanical Engineering*.  
 1 Lecturer, 1 Instructor, 2 Assistants.

**COLLEGE OF MINING.****Professor :**

- F. H. Probert, *Mining*.

**Associate Professors :**

- E. A. Hersam, *Metallurgy*.  
 W. S. Weeks, *Mining*.  
 L. C. Uren, *Mining*.

**Assistant Professor :**

- W. S. Morley, *Metallurgy*.

**COLLEGE OF CIVIL ENGINEERING.****Professors :**

- C. Derleth, *Civil Engineering*.  
 C. G. Hyde, *Sanitary Engineering*.  
 F. S. Foote, *Railroad Engineering*.  
 B. A. Etchevery, *Irrigation Engineering*.

**Associate Professors :**

- A. C. Alvarez, *Civil Engineering*.  
 S. T. Harding, *Irrigation*.

**Assistant Professors :**

- A. J. Eddy, *Civil Engineering*.  
 W. F. Langelier, *Sanitary Engineering*.  
 C. T. Wiskocil, *Civil Engineering*.  
 1 Instructor.

**COLLEGE OF CHEMISTRY.****Professors :**

- G. N. Lewis, *Physical Chemistry*.  
 E. O'Neill, *Inorganic Chemistry*.  
 W. C. Bray, *Chemistry*.  
 J. H. Hilderbrand, *Chemistry*.  
 W. C. Blasdale, *Chemistry*.

**Assistant Professors :**

- M. Randall, *Chemistry*.  
 C. W. Porter       "  
 G. E. Gibson       "  
 G. E. K. Branch, *Chemistry*.  
 4 Instructors, 2 Research Associates,  
 2 Teaching Fellows, 14 Assistants.

**SCHOOL OF ARCHITECTURE.****Professor :**

- J. G. Howard, *Architecture*.

**Associate Professor :**

- W. C. Hays, *Architecture*.

**Assistant Professors :**

- W. C. Perry, *Architecture*.  
 M. E. Cummings, *Modelling*.  
 1 Lecturer, 1 Instructor.

**SCHOOL OF JURISPRUDENCE.****Professors :**

- W. C. Jones, *Jurisprudence*.  
 O. K. McMurray, *Law*.  
 C. H. Lindley, *Law of Mines and Water*.  
 A. M. Kidd, *Law*.  
 E. Elliott, *International Law and Politics*.

**Professors—Continued :**

M. C. Lynch, *Law*.  
A. T. Wright, "  
M. Radin, "  
G. H. Robinson, *Law*.  
9 Lecturers.

**SCHOOL OF EDUCATION.**

**Professors :**

A. F. Lange, *Theory and Practice of Education*.  
R. G. Boone, *Education*.  
C. E. Rugh, "  
W. W. Kemp, *School Administration*.

**Post-Graduate Courses** in all the College and Schools.

**Institutes and Museums :**

1. California Museum of Vertebrate Zoology. *Director* : J. Grinnell, Ph.D.
2. Lick Observatory, Mt. Hamilton. *Director* : W. W. Campbell.
3. D. O. Mills Observatory, Santiago, Chile,
4. California School of Fine Arts, San Francisco.
5. Hastings College of the Law, San Francisco.
6. Medical School (3rd, 4th, and 5th years), San Francisco.
7. College of Dentistry, San Francisco.
8. California College of Pharmacy, San Francisco.
9. Museums of Anthropology, Archeology, and Art, San Francisco.
10. Los Angeles Medical Department (graduate instruction only), Southern Branch of the University, Los Angeles.
11. The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils and Veterinary Science, Davis.
12. The Graduate School of Tropical Agriculture, Riverside.
13. The Scripps Institution for Biological Research, La Jolla.
14. The Summer School of Surveying, Swanton.

**EXPERIMENT STATION**, U.S. Department of Agriculture.

*Director*.—H. J. Webber.

**BERNICE PANDHI BISHOP MUSEUM.** See HONOLULU.

**BETHLEHEM (Pennsylvania).**

**LEHIGH UNIVERSITY**, Bethlehem, Pa. (1866.)

*Terms*: Two per year.

*Students*: 1050.

**OFFICIALS.**

*President*.—Henry S. Drinker, E.M., LL.D.  
*Vice-President*.—N. M. Emery, M.A., Litt.D.  
*Secretary*.—C. L. Thornburg, C.E., Ph.D.  
*Bursar*.—F. M. Ashbough.  
*Registrar*.—Raymond Walters, B.A., M.A.

**Degrees conferred**.—M.A., M.S., B.A., B.S., C.E., M.E., E.M., Ch.E., B.S. in Chem., E.E. and N.E. (Naval Engineer).

**PROFESSORS.**

**ARTS AND SCIENCE.**

**Professors :**

C. L. Thornburg, *Mathematics and Astronomy*.  
W. C. Thayer, *English Language and Literature*.  
J. L. Stewart, *Economics and History*.

**Professors—Continued :**

R. W. Blake, *Latin Language and Literature*.  
C. J. Goodwin, *Greek Language and Literature*.  
A. E. Meaker, *Mathematics*.  
P. A. Lambert, *Mathematics*.

**Professors—Continued :**

- P. M. Palmer, *German*.  
 B. L. Miller, *Geology*.  
 R. W. Hall, *Biology and Forestry*.  
 P. Hughes, *Philosophy and Education*.  
 C. S. Fox, *Romance Languages*.  
 H. R. Reiter, *Physical Education*.  
 H. M. Ullmann, *Chemistry*.  
 J. H. Ogburn, *Mathematics and Astro-  
 nomy*.  
 B. MacNutt, *Physics*.  
 M. J. Luch, *Rhetoric and Oratory*.

**Associate Professor :**

- V. S. Babasinian, *Organic Chemistry*.  
 R. L. Charles, *Physics*.

**Assistant Professors :**

- J. E. Stocker, *Mathematics*.  
 J. H. Wily, *Physics*.  
 C. K. Meschter, *English*.  
 J. B. Reynolds, *Mathematics*.  
 R. P. More, *German*.  
 H. M. Fry, *Physics*.  
 R. Walters, *English*.  
 J. M. Toohy, *Romance Languages*.  
 E. Bowen, *Economics*.  
 P. B. Fraim, *Physics*.  
 M. S. Knebelmen, *Mathematics*.  
 J. H. Bickley, *Accounting*.  
 J. S. Long, *Inorganic Chemistry*.  
 L. R. Drown, *Education*.  
 H. G. Turner, *Geology*.  
 P. S. Cobb, *Organic Chemistry*.

**Post-Graduate Courses.—M.A. and M.Sc.**

**Library.**—Lehigh University Library, 145,000 volumes. *Director* : Prof. J. L. Stewart.

**BHAVNAGAR (India).**

**SAMALDAS COLLEGE**, Bhavnagar, Kathiawar, India. (1885.)

*Terms* : Two a year.

*Students* : 150.

*Budget* : College Budget: Annual Expenditure, Rs. 30,620.

**OFFICIAL.**

*Principal.*—K. J. Sanjana, M.A.

**Degrees conferred.**—As Bombay University.

**PROFESSORS.**

- K. J. Sanjana, *Mathematics*.  
 J. J. Kania, *Sanskrit*.  
 J. S. Gambhir, *Persian*.  
 N. P. Dave, *Logic*.  
 V. M. Mehta, *English*.

- T. K. Shahain, *Economics and English*.  
 H. B. Bhide, *History and Sanskrit*.  
 M. K. Kevalramain, *Mathematics*.  
 1 Lecturer, 1 Fellow.

**Library.**—The College Library contains about 5,000 books. *Librarian* : V. T. Bhatt.

**BIOLOGICAL LABORATORY, COLD SPRING HARBOUR.**

*See* COLD SPRING HARBOUR.

**BIOLOGICAL SOCIETY (America). *See* WASHINGTON.**

**BIRKBECK COLLEGE. *See* LONDON.**

**ENGINEERING.**

**Professors :**

- W. Esty, *Electrical Engineering*.  
 J. W. Richards, *Metallurgy*.  
 H. Eckfeldt, *Mining Engineering*.  
 W. L. Wilson, *Railroad Engineering*.  
 P. B. de Schweinitz, *Machine Design*.  
 A. W. Klein, *Mechanical Engineering*.  
 R. J. Fogg, *Civil Engineering*.  
 F. V. Larkin, *Mechanical Engineering*.  
 J. W. Lang, *Military Science and  
 Tactics*.

**Associate Professors :**

- S. S. Seyfert, *Electrical Engineering*.  
 A. A. Diefenderfer, *Assaying and  
 Quantitative Analysis*.  
 T. E. Butterfield, *Mechanical Engineer-  
 ing*.  
 L. B. Chapman, *Naval Architecture*.

**Assistant Professors :**

- G. A. Roush, *Metallurgy*.  
 G. C. Beck, *Chemistry*.  
 S. A. Becker, *Civil Engineering*.  
 S. R. Schealer, *Electrical Engineering*.  
 R. L. Bartlett, *Mining Engineering*.  
 M. O. Fuller, *Civil Engineering*.  
 D. S. Chamberlin, *Industrial Chemistry*.  
 H. C. Payrow, *Civil Engineering*.  
 J. L. Beaver, *Electrical Engineering*.  
 H. D. Gruber, *Electrical Engineering*.  
 2 Lecturers, 23 Instructors, and 5  
 Assistant Instructors.



## BIRMINGHAM.

**THE UNIVERSITY OF BIRMINGHAM**, Edmund Street, Birmingham, and University Road, Edgbaston. (1900.)

*Terms* : Three a year.

*Students* : 1,800.

*Budget* (1918-1919):

Income from all sources (excluding special Endowment Funds) about £73,000.

Expenditure about £70,000.

Balance applied in reduction of Debt, about £3,000.

### OFFICIALS.

*Chancellor*.—The Rt. Hon. Lord Robert Cecil, K.C., M.P.

*Vice-Chancellor*.—Sir Gilbert Barling, Bt., C.B., C.B.E.

*Treasurer*.—Arthur Godlee.

*Principal*.—C. Grant Robertson, M.A., C.V.O.

*Vice-Principal*.—Sir William Ashley.

*Secretary*.—Geo. H. Morley.

*Registrar*.—John H. Costain.

### Degrees conferred :

#### *Degrees.*

	<i>Hoods.</i>
B.Sc.	- Black silk or stuff edged with silver-grey watered silk.
M.Sc.	- Black silk lined with silver-grey watered silk.
D.Sc.	- Scarlet cloth lined with silver-grey watered silk.
B.A.	- Black silk or stuff edged with electric-blue watered silk.
M.A.	- Black silk lined with electric-blue watered silk.
D.Litt.	- Scarlet cloth lined with electric-blue watered silk.
D.Phil.	- Scarlet cloth lined with electric-blue watered silk.
B.Mus.	- Black silk or stuff edged with tang rine watered silk.
M.B., Ch.B.	- Black silk or stuff edged with cardinal watered silk.
Ch.M.	- Black silk lined with cardinal watered silk.
M.D.	- Scarlet cloth lined with cardinal watered silk.
B.D.S.	- Black silk or stuff edged with dark red (grenat) watered silk.
M.D.S.	- Black silk lined with dark red (grenat) watered silk.
M.Mus.	- Black silk lined with tang rine watered silk.
B.Com.	- Black silk or stuff edged with terra cotta watered silk.
M.Com.	- Black silk lined with terra-cotta watered silk.
LL.D.	- Scarlet cloth lined with bronze-green watered silk.

### PROFESSORS.

#### SCIENCE.

##### **Professors:**

G. N. Watson, *Mathematics*.  
 S. W. J. Smith, *Physics*.  
 G. T. Morgan, *Chemistry*.  
 F. W. Gamble, *Zoology*.  
 R. H. Yapp, *Botany*.  
 W. S. Boulton, *Geology*. [ing.  
 F. W. Burstall, *Mechanical Engineer*.  
 F. C. Lea, *Civil Engineering*.  
 W. Cramp, *Electrical Engineering*.  
 (Vacant), *Brewing*.  
 T. Turner, *Metallurgy*.  
 Sir J. Cadman, *Mining*.

##### **Lecturers :**

C. T. Preece, *Mathematics*.  
 W. N. Bailey, "  
 R. Colomb (Miss), "  
 H. C. Kent, "  
 G. A. Shakespear, *Physics*.  
 G. Barlow, "

##### **Lecturers—Continued :**

H. B. Kecne, *Physics*.  
 T. L. Ibbs, "  
 J. E. Coates, *Chemistry*.  
 F. Challenger, "  
 W. Wardlaw, "  
 S. R. Carter, "  
 C. E. Wood, "  
 S. D. Nicholas, "  
 E. Jones (Miss), "  
 L. M. Stewart, "  
 A. E. Goddard, "  
 S. A. Pearson, "  
 H. G. Jackson, *Zoology*.  
 E. Foulds (Miss), "  
 E. A. N. Twigg (Miss), *Zoology*.  
 C. L. Boulenger, *Agricultural Zoology*.  
 J. Bayliss-Elliott (Mrs.), *Botany*.  
 L. J. Wills, *Geology*.  
 F. Raw, "  
 R. C. Porter, *Mechanical Engineering*.

**Lecturers—Continued:**

S. J. Ellis, *Mechanical Engineering*.  
 F. H. Boden „ „  
 J. Cook „ „  
 (Machine Design.)  
 W. N. Thomas, *Civil Engineering*.  
 R. E. Stradling „ „  
 F. K. Crowther „ „  
 H. W. Coultas „ „  
 W. Haywood, *Town Planning*.  
 E. J. Kipps, *Electrical Engineering*.  
 A. H. Barratt „ „  
 F. K. Crowther „ „  
 R. H. Hopkins, *Brewing*.  
 A. J. Field, *Metallurgy*.  
 D. H. Ingall „ „  
 H. Harris „ „  
 W. Hulse, *Mining*.  
 C. H. Pitt „ „  
 E. C. Scott „ „

**ARTS.**
**Professors :**

J. O. Thomson, *Latin*.  
 E. de Selincourt (Dean), *English*.  
 R. L. G. Ritchie, *French*.  
 F. E. Sandbach, *German*.  
 J. H. Muirhead, *Mental and Moral Philosophy*.  
 C. R. Beazley, *History*.  
 C. W. Valentine, *Education*.  
 Conrad Gill „ „  
 M. Phillips (Miss) „ „  
 G. Bantock, *Music*.

**Lecturers :**

C. D. Chambers, *Latin*.  
 Drummond (Miss), *Classics*.  
 Rev. G. L. Marriott, *Greek*.  
 M. Macmillan, *English*.  
 G. Hislop „ „  
 F. P. Wilson „ „  
 P. Demey, *French*.  
 J. J. Milne (Miss), *French*.  
 S. Dupau (Mdlle.) „ „  
 D. Evans, *German*.  
 L. M. Strachan, *German*.  
 F. de Arteaga, *Spanish and Italian*.  
 L. Segal, *Russian*.  
 J. W. Harvey, *Mental and Moral Philosophy*.  
 F. C. Hood, *History*.  
 D. Sutcliffe (Miss), *History*.  
 F. M. Ritchie (Miss), *Education*.

**MEDICINE.**
**Professors :**

P. Thompson, *Anatomy*.  
 E. W. W. Carlier, *Physiology*.  
 J. W. Russell, *Medicine*.  
 O. J. Kauffmann „ „  
 C. A. Leedham-Green, *Surgery*.

**Professors—Continued :**

L. P. Gamgee, *Surgery*.  
 J. S. Dunn, *Pathology*.  
 J. Robertson, *Hygiene and Public Health*.  
 J. D. Stanley, *Therapeutics*.  
 T. Wilson, *Midwifery*.  
 J. T. J. Morrison, *Forensic Medicine and Toxicology*.

**Assistant Professor :**

J. C. Brash, *Anatomy*.

**Lecturers :**

W. F. Haslam (Dean), *Anatomy*.  
 B. T. Rose, *Anatomy*.  
 O. Elgood-Turner (Mrs.), *Anatomy*.  
 B. G. Goodwin, *Anatomy*.  
 W. E. Bennett „ „  
 H. Walker (Miss), *Physiology*.  
 L. Ball, *Medicine*.  
 S. Barling, *Surgery*.  
 D. M. Hunter, *Pathology*.  
 C. J. Lewis, „ „  
 G. A. Auden, *Hygiene and Public Health*.  
 L. G. Parsons, *Infant Hygiene and Diseases peculiar to Children*.  
 J. C. Kneale, *Materia Medica*.  
 F. R. Greenwood „ „  
 W. A. Potts, *Therapeutics*.  
 J. T. Hewetson, *Midwifery*.  
 C. E. Purslow „ „  
 C. Walker, *Forensic Medicine and Toxicology*.  
 P. T. Hughes, *Mental Diseases*.  
 G. Heaton, *Operative Surgery*.  
 J. J. Evans, *Ophthalmology*.  
 J. T. Hewetson, *Curator of Pathological Museum*.  
 A. W. Nuthall, *Curator of Pathological Museum*.  
 W. T. Madin, *Dental Surgery*.  
 H. F. Humphreys, *Dental Anatomy*.  
 A. E. Donagan, *Dental Mechanics*.  
 A. W. Wellings, *Dental Histology and Pathology*.  
 L. Ball, *Medicine for Dental Students*.  
 A. Lucas, *Surgery* „ „ „ „  
 G. F. Cale-Matthews, *Orthodontics*.

**COMMERCE.**
**Professors :**

Sir W. Ashley, *Commerce*.  
 C. E. Martineau, *Accounting*.  
 F. Tillyard, *Commercial Law*.

**Assistant Professor :**

J. G. Smith, *Commerce*.

**Lecturer :**

T. S. Ashton, *Organizing Tutor in Economics and Political Science*.  
 P. Barrett Whale, *Economics*.

**Post-Graduate Courses.**—In all faculties Courses are provided in preparation for the Higher Degrees of Master and Doctor.

**Institutes and Museums.**—There are Museums in Zoology, Botany, Geology, Anatomy, and Pathology.

Associated with the University is an Institute of Helminthology.

**Libraries.**—An annual grant of about £800 is expended on books and binding in the Libraries in Edmund Street and at Edgbaston. *Librarian:* (with Assistants) W. H. Cope.

#### **AFFILIATED INSTITUTIONS.**

The Birmingham and Midland Institute, Birmingham.

With the Faculty of Arts is closely associated Lichfield and Handsworth Theological Colleges.

### **BLACKSBURG (Virginia).**

#### **EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—A. W. Drinkard, jr.

### **BLOEMFONTEIN (O.F.S.).**

**GREY UNIVERSITY COLLEGE.** No particulars received.

### **BLOOMINGTON (Indiana).**

**INDIANA UNIVERSITY, Indiana.** (1820.)

*Terms:* Two semesters and Summer Session.

*Students:* 3,210.

#### **OFFICIALS.**

*President.*—William L. Bryan, Ph.D., LL.D.

*Dean of the College of Liberal Arts.*—H. A. Hoffman, A.M.

*Dean of the School of Law.*—E. G. Hogate, A.M., LL.D.

*Dean of the Graduate School.*—C. H. Eigenmann, Ph.D.

*Dean of the School of Medicine (Indianapolis).*—C. P. Emerson, A.B., M.D.

*Dean of the School of Education.*—H. L. Smith, Ph.D.

*Dean of Women.*—Ruby E. C. Mason, A.M.

*Registrar and Secretary of the University.*—J. W. Cravens, A.B.

*Bursar.*—U. Howe Smith, A.B.

**Degrees conferred.**—A.B., B.S., LL.B., A.M., M.D., Ph.D.

#### **PROFESSORS.**

##### **COLLEGE OF LIBERAL ARTS.**

###### **Professors:**

Rev. A. Atwater, *Latin*.

H. A. Hoffman, *Greek*.

J. A. Woodburn, *American History*.

C. H. Eigenmann, *Zoology*.

R. E. Lyons, *Chemistry*.

A. L. Foley, *Physics*.

C. M. Mottier, *Botany*. [*Sociology*.

U. G. Weatherly, *Economics and*

B. D. Myers, *Anatomy*.

S. B. Harding, *European History*.

A. S. Hershey, *Political Science and*  
*International Law*.

B. J. Vos, *German*.

W. A. Rawles, *Political Economy*.

C. W. F. Osthaus, *German*.

S. C. Davisson, *Mathematics*.

D. A. Rothrock, *Mathematics*.

W. J. Moenkhaus, *Physiology*.

L. S. Davis, *Chemistry*.

A. M. Brooks, *Fine Arts*.

W. D. Howe, *English*.

W. F. Book, *Educational Psychology*.

C. J. Sembower, *English*.

###### **Professors—Continued:**

E. R. Cumings, *Geology*.

S. E. Stout, *Latin*.

W. B. Elkin, *Philosophy*.

J. W. Piercy, *Journalism*.

E. O. Stiehm, *Physical Education*.

W. E. Jenkins, *General Literature*.

J. A. Williams, *Psychology*. [*Tactics*.

A. T. Dalton, *Military Science and*

P. L. Haworth, *History*.

J. Maxwell (Miss), *Physical Education*.

###### **Associate Professors:**

G. D. Morris, *French*.

F. W. Tilden, *Greek*.

G. H. Stempel, *Comparative Philology*.

C. A. Mosemiller, *Romance Languages*.

R. R. Ramsey, *Physics*.

O. W. Brown, *Chemistry*.

F. M. Andrews, *Botany*.

L. G. Berry, *Latin*.

H. T. Stephenson, *English*.

W. A. Cogshall, *Astronomy*.

U. S. Hanna, *Mathematics*.

J. W. Beede, *Geology*.

C. D. Campbell, *Music*.



# Assistant Professors :

F. G. Bates, *Political Science*.  
F. C. Mathers, *Chemistry*.  
C. E. May, *Chemistry*.  
F. Payne, *Zoology*.  
M. T. Wellman (Miss), *Home Economics*.  
E. G. Henry (Miss), *Social Service* (at Indianapolis).  
E. G. Frazier, *Public Speaking*.  
J. B. Cletcher, *Physics*.  
J. Hill, *Spanish*.  
G. F. Reynolds, *English*.  
P. E. Barra, *German*.  
W. N. Logan, *Geology*.  
G. G. Greever, *English*.  
J. A. Badertscher, *Anatomy*.  
J. B. Phillips, *Economics and Sociology*.  
J. M. Van Hook, *Botany*.  
E. H. Biermann, *German*.  
J. Conklin (Miss), *French*.  
W. Scott, *Zoology*.  
R. E. Burke, *Fine Arts*.  
E. Sage (Miss), *Home Economics*.  
A. L. Kohlmeier, *History*.  
K. P. Williams, *Mathematics*.  
J. G. McDonald, *History*.  
J. A. Wright, *Journalism*.  
A. D. Goss (Mrs.), *German*.  
J. A. Hess, *German*.  
F. C. Senour, *English*.  
C. B. Hennel (Miss), *Mathematics*.  
N. Treat (Miss), *Home Economics*.  
C. McK. Evans, *Physical Education*.

# Assistant Professors—Continued :

L. Roark, *Geology*.  
E. M. Linton, *Political Science*.  
R. E. C. Mason (Miss), (Lecturer), *English*.  
U. H. Smith (Lecturer), *Accounting and Business Practice*.  
51 Instructors.

## SCHOOL OF EDUCATION.

### Professors :

H. L. Smith, *School Administration*.  
W. W. Black, *Elementary Education*.  
W. F. Book, *Educational Psychology*.  
E. A. Lee, *Vocational Education*.

### Associate Professors :

H. G. Childs, *Education*.  
M. T. Weman (Miss), *Home Economics*.  
D. J. MacDonald, *Vocational Education*.  
8 Instructors and 5 Critics Teachers.

## THE SCHOOL OF LAW.

### Professors :

E. G. Hogate, *Law*.  
C. McG. Hepburn, *Law*.  
J. J. M. La Follette, *Law*.  
M. C. Campbell, *Law*.  
W. A. Seavey, *Law*.  
J. L. Parks, *Law*.  
S. Rowley, *Law*.

**Post-Graduate Courses.**—The Graduate School at Indiana University was organized in 1904. Courses are given in Anatomy, Astronomy, Botany, Chemistry, Comparative Philology, Economics and Sociology, English, Fine Arts, Geology, German, Greek, History, Home Economics, Philosophy, Journalism, Latin, Mathematics, Physics, Physiology, Political Science, Romance Languages, Social Service, and Zoology.

**Libraries.**—*Librarian* : W. E. Jenkins, A.M. *Assistant Librarian* : Miss L. Maxwell, A.B. *Reference Librarian* : Miss M. Dunham.

The library of Indiana University at present contains 121,718 volumes, and is growing at the rate of about 6,000 volumes a year.

In addition to the central library, where the general literary and historical collections are housed, there are nine departmental collections of varying sizes, kept in the different University buildings.

The Library of the School of Law contains about 12,500 volumes.

## BOMBAY (India).

**UNIVERSITY OF BOMBAY**, Mayo Road, Fort, Bombay. (1857.)

*Terms* : Two a year.

*Students* : 7,831.

### OFFICIALS.

*Chancellor*.—The Hon. Sir G. A. Lloyd, G.C.I.E., D.S.O.  
*Vice-Chancellor*.—Sir C. H. Setalvad, Kt., B.A., LL.B.  
*Dean in Arts*.—Sir N. G. Chandavarkar, Kt., B.A., LL.B.  
*Dean in Law*.—The Hon. Mr. Justice A. M. Kajiji, B.A., LL.B.  
*Dean in Medicine*.—Dr. S. K. Nariman, M.D.  
*Dean in Science*.—Dr. N. A. F. Moos, D.Sc., L.C.E., F.R.S.E.  
*Registrar*.—Khan B. F. M. Dastur, M.A.

Degrees conferred :

Degrees.	Hoods.
B.A. - - -	Black silk, bound with garter blue silk, 1 inch wide.
M.A. - - -	Garter blue silk, lined with same.
B.Com. - - -	Black silk, bound with violet silk, 1 inch wide.
B.Sc. - - -	Black silk, bound with yellow silk, 1 inch wide.
M.Sc. - - -	Black silk, lined with yellow silk.
B.Ag. - - -	Black silk, bound with green silk, 1 inch wide.
M.Ag. - - -	Black silk, lined with green silk.
B.E. - - -	Black silk, bound with brown silk, 1 inch wide.
M.C.E. - - -	Brown silk, lined garter blue.
LL.B. - - -	Black silk, with scarlet cloth band inside, 2 inches wide.
LL.M. - - -	Scarlet cloth, lined with scarlet silk.
L.M. and S. - -	Black silk, bound with crimson silk, 1 inch wide.
M.B.B.S. - - -	Black silk, lined with crimson silk.
B.Hy. - - -	Black silk, lined with white silk, 1 inch wide.
D.Hy. - - -	Crimson silk, lined with white silk.
M.D. and M.S. -	Crimson silk, lined garter blue.
Hon. LL.D.- -	Scarlet silk, lined with white silk.

PROFESSOR.—Patrick Geddes, *Sociology*.

UNIVERSITY LECTURERS.

P. Anstey, <i>The Sociological Basis of Economics</i> .	L. Peltier, <i>Sixteenth-Century French Literature</i> .
S. A. Surfraz, <i>Hadiqa of Sanai</i> .	

INTER-COLLEGIATE LECTURERS.

ELPHINSTONE COLLEGE.

- A. C. L. Wilkinson, *Elliptic Functions*.  
A. C. Farran, *Politics*.  
S. A. Surfraz, *Rouzatus Safa, Life of Mohammed*.  
J. C. P. D'Andrade, *Spinoza, Leibnitz, Hegel, and Ethics*.

WILSON COLLEGE.

- E. A. Parker, *Chaucer, Langland and Middle English*.  
Rev. Dr. R. R. Scott, *Shakespeare and Milton*.  
H. D. Velankar, *Rigveda and Dharmashastra*.  
P. V. Kulkarni, *Yaska's Nirukta*.  
Rev. J. McKenzie, *History of Ethics*.  
Rev. J. R. Cuthbert, *History of Greek Philosophy*.  
P. A. Wadia, *History of Greek Philosophy from Thales to Plato*.

Library.—The Bombay University Library. Librarian : S. N. Pherwani, M.A.

ST. XAVIER'S COLLEGE.

- Rev. R. Zimmermann, *Rigveda, History of Vedic Literature, Paleography and Comparative Philology*.  
N. K. Bhagvat, *Pali*.  
L. G. Khare, *French Language and Literature*.  
M. W. Dawson, *Latin (Cicero and Lucretius)*.  
F. B. Vachha, *Psychology*.

SYDENHAM COLLEGE.

- H. L. Kaji, *English Economic History*.  
A. R. Burnett-Hurst, *Indian Economic History*.  
V. G. Dalvi, *Indian Economics*.  
P. Anstey, *History of Economic Doctrines*.  
M. L. Taunan, *Currency, Banking, and Public Finance*.

AFFILIATED INSTITUTIONS.

Elphinstone College, Bombay.  
Deccan College, Poona.  
Wilson College, Bombay.  
St. Xavier's College, Bombay.  
Gujarat College and Madhavlal Ranchodlal Science Institute.  
Rajaram College, Kolhapur.  
Baroda College.  
Fergusson College, Poona.  
Samaldas College, Bhavnagar.  
Dayaram Jethmal Sind College.

Bahuddin College, Junagadh.  
New Poona College.  
Karnatak College, Dharwar.  
Sarvajanic College, Surat.  
Willington College, Sangli.  
Sydenham College of Commerce and Economics, Bombay.  
Poona Agricultural College.  
College of Engineering, Poona.  
Government Law School, Bombay.  
Grant Medical College, Bombay.

**BOMBAY AND ALIBAG OBSERVATORIES**, Bombay, India. (1846.)*Director.*—(Vacant.)

At the Colaba Observatory, Bombay, continuous meteorological and seismological records are maintained. Chronometers belonging to the Admiralty and Royal Indian Marine are stored and rated. The Observatory is also responsible for the Time Ball Service at Bombay Harbour.

A magnetic Observatory is situated at Alibag, 20 miles south of Bombay, where absolute measurements and continuous records are made of the magnetic elements. The magnetic work was transferred from Colaba to Alibag in 1906 before the introduction of electric traction into Bombay.

Meteorological and magnetic readings date from 1846 and seismological from 1898. Results are discussed and published in five-yearly volumes.

**BOMBAY BACTERIOLOGICAL LABORATORY**, Parel, Bombay.*Director.*—

Lieut.-Col. W. G. Liston, J.P., C.I.E., M.D., D.P.H., I.M.S.

(Acting) Major J. C. G. Kunhardt.

*Assistants to the Director.*—

Major T. H. Gloster; Major W. D. H. Stevenson.

(Officiating) D. A. Turkhud; S. N. Gore.

**BOSTON (Massachusetts).****BOSTON UNIVERSITY**, Boston, Mass. (1869.)*Terms* : Two a year and a Summer Session. *Students* : 5,666.*Budget* : Proposed Budget, \$713,271 for 1919-1920.**OFFICIALS.***President.*—L. H. Murlin, LL.D.*Treasurer.*—Silas Peirce.*Dean of the College of Liberal Arts.*—W. M. Warren, Ph.D.*Director of the Summer Session.*—A. H. Rice, Ph.D.*Dean of the College of Business Administration.*—E. W. Lord, A.M.*Dean of the School of Theology.*—L. J. Birney, S.T.D.*Director of the Department of Religious Education.*—W. S. Athearn.*Dean of the School of Law.*—H. Albers, A.M., LL.B.*Dean of the School of Medicine.*—J. P. Sutherland, M.D.*Director of the College of Secretarial Science.*—T. L. Davis.*School of Education.*—A. H. Wilde.*Department of Religious Education and Social Service.*—

**Degrees conferred.**—A.B., S.B., B.B.A., B.B.A. cum laude, M.B.A., B.E., M.R.E., S.T.B., LL.B., LL.B. cum laude, LL.B. magna cum laude, LL.M., M.B., M.D., A.M., Ph.D., B.B.S.

**PROFESSORS.****COLLEGE OF LIBERAL ARTS.****Professors :**W. C. Aurelio, *Greek, German.*A. K. Black (Miss), *Elocution.*E. C. Black, *English Literature.*E. H. Brightman, *Philosophy.*R. E. Bruce, *Mathematics.*D. Cameron, *Latin.*F. A. Cleveland, *U.S. Citizenship.*J. B. Coit, *Astronomy.*J. Geddes, *Romance Languages.*N. A. Kent, *Physics.*J. P. Marshall, *Music.*L. C. Nowell, *Chemistry.*M. L. Perrin, *German.***Professors—Continued :**A. H. Rice, *Latin.*D. L. Sharp, *English.*J. R. Taylor, *Greek.*W. M. Warren, *Philosophy.*A. W. Weyssse, *Biology.*A. H. Wilde, *Education.*E. C. Wilm, *Philosophy.***Assistant Professors :**E. A. Aldrich, *History.*W. O. Ault, *History.*C. P. Huse, *Economics.*A. M. Waxman, *Romance Languages.*

19 Instructors, Lecturers, and Assistants.



### COLLEGE OF BUSINESS ADMINISTRATION.

#### Professors :

- H. B. Center, *Journalism*.  
 Roy Davis, *English*.  
 C. P. Huse, *Economics*.  
 H. L. Perrin, *Law*.  
 C. F. Rittenhouse, *Accounting*.  
 F. L. Simpson, *Law*.  
 H. R. Tosdal, *Economics and Finance*.  
 H. Whitehead, *Salesmanship*.

#### Associate Professors :

- C. E. Bellatty, *Advertising*.  
 W. J. McCarty, *Accounting*.

#### Assistant Professors :

- S. Cornejo, *Spanish*.  
 D. Crawford, *English*.  
 W. J. Goggin, *Accounting*.  
 R. H. Loomis, *Economics*.  
 L. D. O'Neil, *Spanish*.  
 A. L. Percy, *Accounting*.  
 J. C. Scammell, *English*.  
 33 Instructors, 2 Lecturers, and 6 Assistants.

### SCHOOL OF LAW.

#### Professors :

- H. Albers, *Law*.  
 M. M. Bigelow, *Law*.  
 H. M. Bowman, "  
 J. P. Crosby, "  
 F. L. Simpson, "  
 C. M. Wood, "  
 18 Lecturers, 6 Instructors.

### SCHOOL OF THEOLOGY.

#### Professors :

- J. M. Barker, *Sociology*.  
 M. D. Buell, *New Testament*.  
 G. C. Cell, *Church History*.  
 A. Gillies, *Homiletics*.  
 E. J. Helms, *Evangelism*.  
 A. C. Knudson, *Old Testament*.  
 W. J. Lowstuter, *New Testament*.  
 C. E. Neil, *Public Speaking*.  
 H. C. Sheldon, *Systematics*.  
 D. D. Vaughn, *Social Service*.

#### Assistant Professors :

- L. J. Birney, *Practical Theology*.  
 H. R. Harper, *Old Testament*.  
 1 Instructor, 3 Lecturers, 1 Assistant.

### SCHOOL OF MEDICINE.

#### Professors :

- E. E. Allen, *Anatomy*.  
 J. L. Ames, *Theory and Practice of Medicine*.  
 F. P. Batchelor, *Physiology*.  
 H. P. Bellows, *Otology*.  
 J. E. Briggs, *Surgery*.  
 P. G. Browne, *Diseases of the Chest*.  
 G. H. Earl, *Obstetrics*.

#### Professors—Continued :

- A. G. Howard, *Orthopedic Surgery*.  
 W. T. Lee, *Diseases of the Skin*.  
 E. N. Libby, *Practice of Medicine*.  
 E. M. Jordan, *Diseases of the Nervous System*.  
 J. H. Moore, *Diseases of Children*.  
 N. E. Paine, *Mental Diseases*.  
 F. W. Patch, *Materia Medica*.  
 G. B. Rice, *Diseases of the Nose and Throat*.  
 A. W. Rowe, *Chemistry*.  
 G. R. Southwick, *Gynecology*.  
 J. P. Sutherland, *Theory and Practice*.  
 W. H. Watters, *Pathology*.  
 D. W. Wells, *Ophthalmology*.  
 W. F. Wesselhoeft, *Clinical Surgery*.  
 A. W. Weysee, *Experimental Physiology*.  
 F. G. Wheatley, *Pharmacology*.  
 D. G. Wilcox, *Clinical Gynecology*.  
 N. W. Wood, *Clinical Medicine*.

#### Associate Professors :

- E. S. Calderwood, *Anatomy*.  
 F. W. Colburn, *Otology*.  
 S. C. Fuller, *Neuropathology*.  
 F. W. Halsey, *Diseases of the Rectum*.  
 F. E. Haskins, *Pharmacology*.  
 A. W. Horr, *Ophthalmology*.  
 N. H. Houghton, *Diseases of the Nose and Throat*.  
 C. T. Howard, *Clinical Surgery*.  
 H. M. Fellock, *Hospital Adm. and Organiz.*  
 E. P. Ruggles, *Obstetrics*.  
 H. O. Spalding, *Mental Diseases*.

#### Assistant Professors :

- T. J. O'Brien, *Clinical Medicine*.  
 C. Phipps, *Clinical Medicine*.  
 15 Instructors, 25 Lecturers.

### SCHOOL OF EDUCATION.

#### Professor :

- A. H. Wilde, *Education*.

#### Assistant Professor :

- E. M. Chamberlain, *Education*.  
 6 Instructors, 3 Lecturers.

### COLLEGE OF SECRETARIAL SCIENCE.

#### Professors :

- C. P. Huse, *Economics*.  
 R. E. Bruce, *Mathematics*.  
 Roy Davis, *Business English*.

#### Associate Professor :

- W. J. McCarty, *Accounting*.

#### Assistant Professors :

- W. O. Ault, *History*.  
 S. Cornejo, *Spanish*.  
 10 Instructors, 4 Lecturers, 2 Assistants.

**DEPARTMENT OF RELIGIOUS  
EDUCATION AND SOCIAL SERVICE.****Professors :**

- W. S. Athearn, *Religious Education*.  
 A. E. Bennett, *Educational Psychology*.  
 A. Munkros, *Elementary Education*.  
 A. M. Robertson (Miss), *Vocational Guidance and Women's Work*.  
 C. E. Carroll, *Social Science*.  
 H. A. Smith, *Music*.  
 F. Strickland, *History and Psychology of Religion*.  
 O. W. Warmingham, *Bible*.

**Special Professors :**

- J. L. Alexander, *Adolescent Education*.  
 T. N. Carver, *Rural Sociology*.  
 E. M. Chamberlain, *Psychology, Agriculture, and Rural Education*.

**Assistant Professors :**

- F. W. Clelland, *English Bible*.  
 C. W. Coburn, *Rural Leadership and Psychology*. [Work.  
 M. W. Eggleston (Mrs.), *Young People's*  
 H. A. Reid, *Principal* (Evening School).  
 5 Instructors, 8 Assistants.

**SUMMER SESSION.****Professors :**

- E. C. Black, *English*.  
 H. B. Center, *Navigation, Business*  
 S. Cornejo, *Spanish*. [English.  
 C. G. Hamilton, *Piano*.  
 N. A. Kent, *Physics*.  
 J. P. Marshall, *Music*.  
 L. C. Newell, *Chemistry*.  
 A. H. Rice, *Latin*.  
 C. F. Rittenhouse, *Accounting*.  
 J. R. Taylor, *Drama*.  
 A. W. Weyssse, *Biology*.  
 E. C. Wilm, *Philosophy*.

**Post-Graduate Courses** leading to Ph.D., and A.M. degrees.

**Libraries.—**

- Library of College of Liberal Arts, 18,000 volumes.  
 Library of College of Business Administration, 4,300 volumes.  
 Library of School of Law, 16,000 volumes.  
 Library of School of Medicine, 6,000 volumes.  
 Library of School of Theology, 15,000 volumes.  
 Library of School of Education, 150 volumes.  
 Library of Religious Education and Social Services, 2,500 volumes.

**Librarians :** Miss M. Barnum, R. Power.

**Learned Societies.—**

Phi Beta Kappa, founded at the College of William and Mary, in 1776, is an honorary society in which membership is conferred for high scholarship. Massachusetts Epsilon Chapter at Boston University received its charter in 1898. Each year a few Seniors maintaining high rank throughout their Course are elected to membership. College of Liberal Arts.

The Boston University Chapter of the honour society, Delta Mu Delta, elects to membership each year from the graduates of highest scholastic standing, not more than one-fifth of the graduating class; and, in addition, may elect not more than three members of the Junior class, selecting the members whose standing is the highest. College of Business Administration.

**Associate Professors :**

Roy Davis, *English*.

**Assistant Professors :**

- E. A. Aldrich, *History*.  
 C. P. Ruse, *Economics*.  
 S. M. Waxman, *French, Spanish*.  
 7 Instructors, 2 Assistants, 9 Lecturers.

**GRADUATE SCHOOL.****Professors :**

- E. E. Allen, *Anatomy*.  
 W. S. Athearn, *Religious Education*.  
 F. P. Batchelder, *Physiology*.  
 M. M. Bigelow, *Law*.  
 E. C. Black, *English Literature*.  
 H. M. Bowman, *Law*.  
 E. S. Brightman, *Philosophy*.  
 R. E. Bruce, *Mathematics*.  
 M. D. Buell, *New Testament Greek*.  
 G. C. Cell, *Historical Theology*.  
 J. B. Coit, *Astronomy*.  
 J. Geddes, *Romance Languages*.  
 N. A. Kent, *Physics*.  
 A. C. Knudson, *Old Testament Exegesis*.  
 W. J. Lowstuter, *New Testament Literature*.  
 J. P. Marshall, *History and Theory of*  
 L. C. Newell, *Chemistry*. [Music.  
 M. L. Perrin, *Germanic Language and*  
 A. H. Rice, *Latin*. [Sanskrit.  
 A. W. Rowe, *Chemistry*.  
 D. L. Sharp, *English*.  
 H. C. Sheldon, *Systematic Theology*.  
 F. L. Simpson, *Law*.  
 J. R. Taylor, *Greek*.  
 W. F. Warren, *Religious*.  
 W. H. Watters, *Pathology*.  
 A. H. Wilde, *Education and School Administrator*.  
 E. C. Wilm, *Philosophy*.

## AFFILIATED INSTITUTIONS.

Morgan Memorial, Boston.

Deaconess Training School, Brookline, Mass.

**BUSSEY INSTITUTION**, Forest Mills, Boston, Mass. (1871.)

The Graduate School of Applied Biology of Harvard University.

*Terms*: Open throughout the year.

## OFFICIALS.

*President*.—Abbott Lawrence Lowell, LL.B., LL.D., Ph.D.*Dean*.—William Morton Wheeler, Ph.D., S.D.*Secretary*.—Irving Widner Bailey, A.B., M.F.**Degrees conferred**.—S.D., S.M., M.F.

## PROFESSORS.

**Professors :**W. M. Wheeler, *Economic Entomology*.G. H. Parker, *Zoology*.D. E. Castle, *Zoology*.W. J. V. Osterhout, *Botany*.E. E. Tyzzer, *Comparative Pathology*.E. M. East, *Plant Morphology*.**Assistant Professors :**J. G. Jack, *Dendrology*.O. Ames, *Botany*.R. Thornton Fisher, *Forestry*.I. W. Bailey, *Forestry*.C. T. Brues, *Economic Entomology*.**MASSACHUSETTS INSTITUTE OF TECHNOLOGY.** No particulars received.**THE CARNEGIE INSTITUTION NUTRITION LABORATORY**, Boston, Mass. (1907.)*Director*.—Francis G. Benedict.

Investigatory staff of 24 members.

Studies of the metabolism of normal individuals and of diabetics, and many other researches connected with metabolism.

**BOTANICAL SURVEY OF INDIA.** See SIMLA.**BOULDER (Colorado).****UNIVERSITY OF COLORADO.** No particulars received.**BOZEMAN (Montana).****EXPERIMENT STATION**, U.S. Department of Agriculture.*Director*.—F. B. Tinfield.**BRANDON (Manitoba).****BRANDON COLLEGE**, Brandon, Manitoba, Canada. (1899.)*Terms*: Three per year—12 weeks each. Arts and Theological Departments, two terms.*Students*: 321.

## OFFICIALS.

*President*.—Howard P. Whidden, B.A., D.D., LL.D.*Dean*.—Harris L. MacNeill, B.A., Ph.D.*Registrar*.—Samuel J. McKee, B.A., LL.D.*Bursar*.—B. T. Morse.**Degrees conferred**.—B.A. and M.A.

Hoods as McMaster University, Toronto.

## PROFESSORS.

**FACULTY OF ARTS AND SCIENCE.**S. J. McKee, *Philosophy*.O. A. C. Wilkins (Mrs.), *English and*C. W. New, *History*. [German.]J. R. C. Evans, *Science*.P. Louys, *French*.**Faculty of Arts and Science—Continued :**C. H. Lager, *Swedish and Hebrew*.T. R. Wilkins, *Mathematics and*  
*Physics*.J. Fraser (Miss), *English*.J. Turnbull (Miss), *French*.



**FACULTY OF THEOLOGY.**

- H. P. Whidden, *Christian Theology and Ethics.*  
H. L. MacNeill, *New Testament and Classics.*  
J. A. Gordon, *Homiletics and Pastoral Administration.*  
G. T. Webb, *Religious Education.*

**ACADEMIC AND BUSINESS.**

- W. A. Mackintosh, *Political Economy.*  
B. T. Morse, *Business.*

**Academic and Business—Continued :**

- A. E. Wright (Mrs.), *Academic and Business.* [Shorthand  
J. Taylor (Miss), *Stenography and*  
R. L. Allen, *Academic.*

**MUSIC.**

- W. L. Wright, *Piano and Theory.*  
G. M. Newbury (Miss), *Expression and Physical Culture.*  
M. Wilson (Miss), *Vocal.*  
H. Venn (Miss), *Piano.*  
E. Gerrand (Miss), *Piano.*

**BRISBANE (Queensland).**

**UNIVERSITY OF QUEENSLAND**, Brisbane, Queensland. (1909.)

*Terms : Three per year.*

**OFFICIALS.**

*Chancellor.*—The Hon. Sir Pope Alexander Cooper, K.C.M.G., M.A.  
*Vice-Chancellor.*—The Hon. A. J. Thynne, M.L.C.  
*Registrar and Librarian.*—F. W. S. Cumbræ-Stewart, B.A., B.C.L.

**Degrees conferred :**

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Pure white silk edged with silk cord.
M.A. - -	Dark maroon silk.
B.Sc. - -	Blue silk edged with yellow silk cord.
M.Sc. - -	Black silk lined with yellow silk.
D.Sc. - -	
B.E. - -	Light maroon silk edged with black silk cord.
M.E. - -	Yellow silk edged with black silk cord.
LL.B. - -	Light blue silk edged with black silk cord.
LL.D. - -	
M.B. - -	Black silk edged with red silk cord.
B.S. - -	Black silk edged with red silk cord.
M.D. - -	

**PROFESSORS.**

**Professors :**

- B. D. Steele, *Chemistry.*  
H. G. Denham, *Chemistry.*  
J. L. Michie, *Classics.*  
A. J. Gibson, *Engineering.*  
R. W. H. Hawken, *Engineering.*  
H. J. Priestley, *Mathematics and Physics.*

**Lecturers :**

- L. S. Bagster, *Applied Chemistry.*  
T. H. Johnston, *Biology.*  
C. D. Gillies, *Biology.*  
H. G. Denham, *Chemistry.*  
T. G. H. Jones, *Chemistry.*  
R. W. H. Hawken, *Civil Engineering.*  
R. J. Cholmeley, *Classics.*  
S. Castlehow, *Classics.*  
T. C. Witherby, *Economics.*  
P. L. Weston, *Electrical Engineering.*  
J. J. Stable, *English, French, and German.*  
H. F. Parnell, *English, French, and German.*

**Lecturers—Continued :**

- A. K. Gray, *English, French, and German.*  
H. M. McCulloch, *English, French, and German.*  
C. Schindler, *French (evening).*  
H. Alcock, *History and Economics.*  
A. C. V. Melbourne, *History and Industrial History.*  
H. C. Richards, *Geology and Mineralogy.*  
A. B. Walkom, *Geology and Mineralogy.*  
G. E. Mayo, *Logic, Ethics, and Psychology.*  
P. A. Seymour, *Logic, Psychology, and Education.*  
H. J. Priest, *Mathematics.*  
T. Parnell, *Physics.*  
S. G. Lusby, *Physics.*  
K. F. Swanwick, *Mathematics.*  
J. P. McCarthy, *Mathematics.*  
6 Hon. Lecturers, 6 Demonstrators.

**QUEENSLAND MUSEUM, Brisbane, Queensland. (1855.)***Director.*—Heber A. Longman.

15 Assistants.

The Queensland Museum is a Government Institution, financed by an annual grant. The Museum is mainly devoted to Natural History, but also contains important ethnological collections from Papua.

Library of 15,000 volumes.

**Publications.**—

Annals, up to 1911, ten volumes published.

Memoirs, six volumes published.

**ROYAL SOCIETY OF QUEENSLAND.** No particulars received.**BRISTOL.****UNIVERSITY OF BRISTOL, Tyndall's Park, Bristol. (1909.)***Terms:* Three a year.*Students:**Budget (1917-18):*

Income .. .. .	£22,856	1	7
Expenditure .. .. .	24,867	7	5

**OFFICIALS.**

*Chancellor.*—The Rt. Hon. The Viscount Haldane of Cloan, O.M., K.T., D.C.L. LL.D., F.R.S.

*Pro-Chancellors.*—

The Rt. Hon. Lewis Fry, LL.D.

George A. Wills, LL.D.

The Rt. Hon. Henry Hobhouse, LL.D.

H. H. Wells, J.P.

*Vice-Chancellor.*—Sir Isambard Owen, D.C.L., M.D.*Pro-Vice-Chancellor.*—Professor C. Lloyd Morgan, D.Sc., LL.D., F.R.S.*Treasurer.*—Stanley H. Badock, J.P.*Registrar.*—James Rafter, M.A.**Degrees conferred:***Degrees.**Hoods.*

B.A. - - -	University red, lined with lighter university red silk.
M.A. - - -	University red, lined with white silk.
D.Litt. - - -	University red, lined with salmon silk.
B.Sc. - - -	University red, lined with lighter university red silk.
M.Sc. - - -	University red, lined with white silk.
D.Sc. - - -	University red, lined with salmon silk.
M.B., Ch.B. - - -	University red, lined with lighter university red silk.
Ch.M. - - -	University red, lined with white silk.
M.D. - - -	University red, lined with salmon silk.
Ph.D. - - -	University red, lined with salmon silk.

**PROFESSORS.****FACULTY OF ARTS.****Professors:**F. F. Boillot, *French.*F. Brooks, *Classics.*J. E. V. Crofts, *English.*J. F. Dobson, *Greek.*G. H. Leonard, *Modern History.*C. L. Morgan, *Psychology and Ethics.*H. M. Wodehouse, *Education.***Readers and Lecturers:**C. Ord, *German.*E. Gualtieri, *Italian.*E. Sibree, *Oriental Languages.*H. Pitman, *Classics.*P. Haworth, *English.*E. G. Ingram, *English.*M. C. Staveley, *History.*W. L. Cooper, *History.***Readers and Lecturers—Continued:**C. MacInnes, *History.*A. Gardner, *Byzantine History.*B. M. N. Perkins, *French.*T. S. Foster, *Method.*

A. Mullock, "

Rev. J. Polack, *Hebrew.*Rev. de Lacy O'Leary, *Aramaic, Syriac, and Hellenistic Greek.*A. M. Wilshe, *Law.*

C. A. Chilton, "

T. S. Foster, *Education.*

M. F. Pease, " [point.

C. Bucknall, *Harmony and Counter.*Rev. J. Segall, *Arabic.*Major C. Corfield, *Military Law.*Capt. R. I. Rawson, *Military Organization and Administration.*

**FACULTY OF SCIENCE.****Professors :**

- B. T. P. Barker, *Agricultural Biology*.  
 E. S. Boulton, *Applied Mathematics*.  
 O. V. Darbishire, *Botany*.  
 F. Francis, *Chemistry*.  
 H. R. Hasse, *Mathematics*.  
 J. W. McBain, *Physical Chemistry*.  
 S. H. Reynolds, *Geology*.  
 A. M. Tyndall, *Physics*.  
 J. Wertheimer, *Applied Chemistry*.

**Readers and Lecturers :**

- H. Bolton, *Paleontology*.  
 W. D. Henderson, *Zoology*.  
 P. Fraser, *Pure Mathematics*.  
 S. Brodetsky, *Applied Mathematics*.  
 I. Williams, *Physics*.  
 B. Hodgson, *Physics*.  
 O. C. M. Davis, *Chemistry*.  
 F. W. Rixon, „ „  
 M. Nierenstein, *Biochemistry*.  
 E. Russel, *Chemistry*.  
 C. T. Gimingham, *Agricultural Chemistry*.  
 A. H. Lees, *Plant Pathology*.  
 O. Grove, *Oenology*.  
 S. P. Wiltshire, *Mycology*.  
 H. Stanley, *Applied Chemistry*.  
 J. D. Fry, *Physics*.  
 J. W. White, *Systematic Botany*.

**FACULTY OF MEDICINE.****Professors :**

- G. A. Buckmaster, *Physiology*.  
 F. H. Edgeworth, *Medicine*.  
 E. Fawcett, *Anatomy*.  
 I. W. Hall, *Pathology*.  
 C. A. Morton, *Surgery*.

**Post-Graduate Courses.**—Post-Graduate Courses in all faculties leading to the Diploma in Education and Diploma in Public Health.

**Libraries.—**

- General Library. *Librarian* : E. Sibree, M.A.  
 Medical Library. *Hon. Librarian* : C. K. Rudge, M.R.C.S., L.R.C.P.

**AFFILIATED INSTITUTIONS.**

- National Fruit and Cider Institute, Long Ashton, Somerset.  
 The Baptist College, Bristol.  
 The Western College, Bristol.  
 The Theological College, Salisbury.  
 St. Boniface College, Warminster.  
 Redland High School and Colston's Girls' School, Bristol (for Froebel Training).

**MERCHANT VENTURERS' TECHNICAL COLLEGE, Bristol. (1856.)**

The Faculty of Engineering of the University of Bristol is provided and maintained in the College.

*Terms* : Three per year—October to June.

*Students* : 200, exclusive of more than 600 evening students.

*Budget* : Expenditure about £18,000 a year.

**Professors—Continued :**

- J. Swain, *Surgery*.  
 W. C. Swayne, *Obstetrics*.

**Lecturers :**

- D. S. Davies, *Public Health*.  
 J. P. Bush, *Operative Surgery*.  
 R. G. P. Lansdown, *Practical Surgery*.  
 C. H. Walker, *Ophthalmology*.  
 G. Parker, *Forensic Medicine and Toxicology*.  
 N. Neild, *Pharmacology and Therapeutics*.  
 W. R. Ackland, *Dental Surgery*.  
 E. A. G. Dowling, *Operative Dental Surgery*.  
 J. C. Wing, *Dental Mechanics*.  
 P. W. Williams, *Laryngology, Rhinology, and Otology*.  
 D. C. Rayner, *Obstetrics*.  
 E. W. H. Groves, *Surgery to Dental Students*.  
 J. V. Blachford, *Mental Diseases*.  
 A. R. Short, *Physiology*.  
 F. R. Cross, *Ophthalmology*.

**FACULTY OF ENGINEERING.****Professors :**

- R. M. Ferrier, *Civil Engineering*.  
 W. Morgan, *Automobile Engineering*.  
 A. Robertson, *Mechanical and Mining Engineering*.  
 D. Robertson, *Electrical Engineering*.

**Lecturers :**

- W. E. Francis, *Civil Engineering*.  
 F. R. B. Watson, *Mechanical Engineering*.  
 11 Assistant Lecturers, 11 Demonstrators, 32 Recognized Teachers.



OFFICIALS.

*Dean.*—Prof. J. Wertheimer, B.A., D.Sc., F.I.C.

*Secretary.*—G. H. Pope, M.A., B.C.L., D.L.

*Treasurer.*—W. W. Ward, M.A., LL.D., J.P.

**Degrees conferred.**—B.Sc., M.Sc., and D.Sc. in Engineering.

PROFESSORS.

R. M. Ferrier, *Civil Engineering.*

A. Robertson, *Mechanical Engineering.*

D. Robertson, *Electrical Engineering.*

W. Morgan, *Automobile Engineering.*

J. Wertheimer, *Applied Chemistry.*

E. S. Boulton, *Applied Mathematics.*

S. H. Reynolds, *Geology.*

150 Lecturers, 13 Assistant Lecturers,

10 Demonstrators.

**Post-Graduate Courses** are provided in all departments, and a large amount of research work is carried on in the Faculty.

**Learned Societies.**—University of Bristol Engineering Society. *President:* Prof. D. Robertson. *Chairman:* J. A. L. Hooper. *Secretary:* J. R. Bamber.

The Library contains about 6,000 volumes. *Librarian:* Dorothy B. Shepherd.

**BRITISH COLUMBIA, UNIVERSITY OF.** *See VANCOUVER.*

**BRITISH MEDICAL ASSOCIATION.** *See LONDON.*

**BRITISH MUSEUM.** *See LONDON.*

**BRITISH ORNITHOLOGISTS' UNION.** *See LONDON.*

**BROWN UNIVERSITY.** *See PROVIDENCE.*

**BRUNSWICK (Maine).**

**BOWDOIN COLLEGE.** No particulars received.

**BRYN MAWR (Pennsylvania).**

**BRYN MAWR COLLEGE,** Bryn Mawr, Pa. (1880.)

*Terms:* Two semesters—October to February, February to June.

*Students:* Undergraduates, 385; Graduates, 98. (Number of undergraduates limited by number of rooms available in halls of residence.)

OFFICIALS.

*President.*—M. Carey Thomas, Ph.D., LL.D.

*Acting President for 1919-20.*—Helen H. Taft, A.M.

*Recording Dean and Assistant to the President.*—Isabel Maddison, B.Sc., Ph.D.

*Dean of the College for 1919-21.*—Hilda W. Smith, A.M.

*Secretary and Registrar of the College.*—Edith Orlady, A.B.

**Degrees conferred:**

B.A. Hood—lined yellow silk, trimmed white fur.

M.A. Hood—lined yellow silk, trimmed white velvet.

Ph.D. Hood—lined yellow silk, with edge of blue velvet.

PROFESSORS.

**FACULTY OF ARTS AND SCIENCES.**

**Professors:**

J. Barnes, *Physics.*

G. A. Barton, *Biblical Literature and Semitic Languages.*

F. Bascom (Miss), *Geology.*

**Professors—Continued:**

R. F. Brunel, *Chemistry.*

R. Carpenter, *Classical Archeology.*

M. Castro (Miss), *Education.*

R. K. Crandall (Miss), *English Composition.*

**Professors—Continued :**

F. DeHaan, *Spanish*.  
T. de Leo de Laguna, *Philosophy*.  
L. M. Donnelly (Miss), *English*.  
C. G. Fenwick, *Political Science*.  
C. E. Ferree, *Experimental and Systematic Psychology*.  
H. L. Gray, *History*.  
W. B. Huff, *Physics*.  
K. D. Jessen, *German*.  
G. G. King (Miss), *History of Art*.  
S. M. Kingsbury (Miss), *Social Economy and Social Research*.  
J. H. Leuba, *Psychology*.  
H. N. Sanders, *Greek*.  
C. A. Scott (Miss), *Mathematics*.  
M. P. Smith (Mrs.), *Economics*.  
W. R. Smith, *History*.  
D. H. Tennent, *Biology*.  
A. L. Wheeler, *Latin*.

**Associate Professors :**

J. B. Beck, *French Philology*.  
S. C. Chew, *English Literature*.  
C. W. David, *History*.  
G. M. A. de Laguna (Mrs.), *Philosophy*.  
S. C. Brooks, *Physiology and Biochemistry*.  
A. J. Pell (Mrs.), *Mathematics*.  
H. J. Savage, *English Composition*.  
E. M. Schenck (Miss), *French*.  
W. C. Wright (Mrs.), *Greek*.

**Associates :**

A. H. Arlitt (Mrs.), *Education*.  
J. L. Crenshaw, *Physical Chemistry*.  
G. Rand (Miss), *Experimental and Applied Psychology*.  
A. R. Riddell (Miss), *Italian*.  
E. E. Sabin (Miss), *Philosophy*.  
4 Lecturers, 12 Instructors, 2 Readers,  
4 Demonstrators.

**Post-Graduate Courses** leading to the degree of Doctor of Philosophy are given in the following subjects:

Sanskrit and Indo-European Philology, Greek, Latin, English, Philology including Anglo-Saxon, Early and Middle English, English Literature, German Literature, Gothic Teutonic Philology, Old Norse, Old High German, Old Saxon, Modern and Old French, Italian, Spanish, and other Romance Languages, Hebrew, Aramaic, Assyrian, Biblical Literature, History, Economics, and Politics, Social Economy and Social Research, Philosophy, Psychology, Education, Classical Archeology, History of Art, Mathematics, Physics, Chemistry, Physical Chemistry, Geology, Mineralogy, Paleontology, Morphology, Physiology, and Bio-Chemistry.

**Learned Societies.**—Journal Club meetings held fortnightly for discussion of periodical literature and recent research in the following departments:

Greek, Latin, English, Romance Languages, German, History Economics and Politics, Social Economy, Philosophy, Psychology Education, Classical Archeology, History of Art, Mathematics, Physics, Chemistry, Geology, Biology.

Library of 90,000 volumes; 10,000 dissertations and pamphlets; over 400 periodicals, reviews, and scientific journals.

## BUFFALO (New York).

**UNIVERSITY OF BUFFALO, N.Y. (1846.)**

*Terms:* Two semesters—September to February, February to June.

*Students:* 1049.

### OFFICIALS.

*Chancellor.*—Charles P. Norton.

*Secretary of the Council.*—Philip B. Goetz.

*Treasurer.*—W. H. Crosby.

*Dean of the Faculty of Arts and Sciences.*—Julian Paré.

*Dean of the Faculty of Medicine.*—Charles S. Jones.

*Dean of the Faculty of Pharmacy and Chemistry.*—W. G. Gregory.

*Dean of the Faculty of Dentistry.*—Daniel H. Squire.

*Dean of the Faculty of Law.*—Carlos C. Alden.

**Degrees conferred.**—B.A., B.Sc., Doctor of Medicine, Doctor of Pharmacy, Master of Pharmacy, Graduate in Pharmacy, Pharmaceutical Chemist, Analytical Chemist, Doctor of Dental Surgery, Bachelor of Laws, Master of Laws.

Caps, gowns, and hoods correspond to the American intercollegiate code.

**PROFESSORS.**

**FACULTY OF ARTS AND SCIENCES.**

Albert P. Sy, *Chemistry*.  
 W. H. Sherk, *Mathematics*.  
 A. R. Shadle, *Biology*.  
 P. B. Goetz, *English*.  
 J. Park, *History*.  
 E. J. Moore, *Physics*.  
 D. B. Leary, *Philosophy*.  
 3 Associates, 6 Instructors, 10 Lecturers.

**FACULTY OF DENTISTRY.**

D. H. Squire, *Operative Dentistry*.  
 C. K. Buell, *Crown and Bridge Work*.  
 (Vacant), *Physiology*.  
 M. Clinton, *Surgery*.

**FACULTY OF MEDICINE.**

De L. Rochester, *Principles and Practice of Medicine*.  
 H. U. Williams, *Pathology and Bacteriology*.

**Post-Graduate Courses.**—Course in Public Health (in the Medical Faculty.)  
 Museums of medical and dental pathology, geology, and mineralogy.

**Libraries.**—

General Library. *Librarian*: Jean Agnew.  
 Medical Library. *Librarian*: Irving P. Lyon.  
 Dental Library. *Librarian*: (Vacant.)  
 Law Library. *Librarian*: George D. Crofts.

**Faculty of Medicine—Continued:**

G. W. Wende, *Dermatology*.  
 J. W. Putman, *Neurology*.  
 H. G. Matzinger, *Psychiatry*.  
 J. L. O'Brien, *Medical Jurisprudence*.  
 F. C. Goldsborough, *Obstetrics*.  
 De Witt H. Sherman, *Pediatrics*.  
 G. F. A. Hartman, *Physiology*.  
 E. G. Starr, *Ophthalmology*.  
 De Lancey Rochester, *Medicine*.  
 G. F. Cott, *Oto-Laryngology*.  
 E. R. McGuire, *Surgery*.  
 W. W. Plummer, *Orthopedics*.  
 E. W. Koch, *Pharmacology*.  
 W. J. Atwell, *Anatomy*.  
 E. H. Long, *Materia Medica and Therapeutics, and Toxicology*.  
 R. F. Morgan, *Microscopy*.  
 7 Lecturers; 48 Assistant, Adjunct, and Associate Professors; 41 Instructors; 16 Assistants and other Teachers.

**BUREAU OF AMERICAN ETHNOLOGY.** *See* **WASHINGTON.**

**BUREAU OF EDUCATION (India).** *See* **SIMLA.**

**BURLINGTON (Vermont).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. L. Hills.

**BUSSEY INSTITUTION.** *See* **BOSTON.**

**CAIRO (Egypt).**

**PHYSICAL DEPARTMENT, MINISTRY OF PUBLIC WORKS, Cairo.**

*Controller.*—H. E. Hurst.  
*Director of Hydrology and Physical Research.*—E. B. H. Wade.  
*Director of Weights and Measures Service.*—P. A. Curry.  
*Director of Meteorological Service.*—H. Knox-Shaw.

The technical staff of the Department numbers 80.

**HELWAN OBSERVATORY.**

Latitude 29° 51' 33" N. Longitude 31° 20' 30" E. Height above sea-level, 116 metres.

Astronomical Observatory and First Order. Meteorological Station for Egypt.

*Director.*—H. Knox-Shaw.

Staff of 12 Assistants.



## CALCUTTA (India).

CALCUTTA UNIVERSITY, College Square, Calcutta. (1857.)

Session : June to May.

## OFFICIALS.

*Chancellor.*—His Excellency the Rt. Hon. Sir F. J. N. Thesiger, P.C., G.C.S.I., G.C.M.G., G.C.I.E., Baron Chelmsford.*Vice-Chancellor.*—The Hon. Sir Nilratan Sircar, Kt., M.A., M.D.*Rector.*—His Excellency the Rt. Hon. L. J. L. Dundas, G.C.I.E., Earl of Ronaldshay.*Registrar.*—J. C. Ghosh, M.A.*Assistant Registrar.*—C. B. Maitra, M.A.*Controller of Examination.*—Rai A. C. Bose, Bahadur, M.A.*Degrees conferred.*—B.A., B.Sc., M.A., M.Sc., LL.B., LL.M., LL.D., M.B., B.E., D.Ph., D.Sc., M.D., M.O.

## PROFESSORS.

## Professors :

P. Bruhl, *Botany*.C. E. Cullis, *Higher Mathematics*.(Vacant), *Economics*.B. N. Seal, *Philosophy*.D. R. Bhandarker, *Ancient History*.

Sir P. C. Ray (Sir Taraknath Palit Professor). [Professor].

C. V. Raman (Sir Taraknath Palit Sudhansukumar Banerjee (Sir Rashbehary Ghose Professor).

D. M. Bose (Sir Rashbehary Ghose Professor).

1 Lecturer in French; 14 Lecturers in English; 18 Lecturers in Sanskrit; 9 Lecturers in Pali; 6 Lecturers in Arabic and Persian; 3 Lecturers in Comparative Philology; 13 Lecturers in Philosophy; 7 Lecturers in Experimental Psychology; 23 Lecturers in History; 14 Lecturers in Economics; 11 Lecturers in Pure Mathematics. 1 Instructor in Tibetan; 1 Instructor in Modern Languages; 1 Instructor in Japanese; 4 Instructors in Chemistry; 2 Instructors in Geology; 2 Teachers in Pali; 1 Research Fellow.

## Professors—Continued :

S. P. Agharkar (Sir Rashbehary Ghose Professor).

P. C. Mitter (Sir Rashbehary Ghose Professor).

## Assistant Professors :

S. B. Bal, *Botany*.P. Gangooly, *Ancient History*.

R. Dotta (Sir Taraknath Palit Assistant Professor).

T. K. Chinmayanandam (Sir Taraknath Palit Assistant Professor).

## AFFILIATED COLLEGES.

Anandomohan College, Mymensingh.

Bagerhat College.

Bangabasi College.

Bethune College.

Brajamonhan College, Barisal.

Burdwan Raj College.

Carmichael Medical College, Belgachia.

Carmichael College, Rungpore.

Central College, Calcutta.

Chittagong College.

City College, Calcutta.

Civil Engineering College, Sibpore.

Cotton College, Gauhati.

Dacca College.

Dacca Law College.

Dacca Training College.

Daulatpore Hindu College.

David Hare Training College.

Diocesan College.

Earle Law College, Gauhati.

Edward College, Pabna.

Hughli College.

Jagannath College, Dacca.

Judson College, Rangoon.

Krishnachandra College, Hetampore.

Krishnagar College.

Krichnath College, Bernhampore.

Loreto House, Calcutta.

Medical College, Calcutta.

Midnapore College.

Murarichand College, Sylhet.

Presidency College, Calcutta.

Rajendra College, Faridpore.

Rajshahi College.

Rangoon College.

Rangoon Law College.

Ripon College, Calcutta.

Ripon Law College, Calcutta.

Sanskrit College.

Scottish Churches College, Calcutta.

Serampore College.

South Suburban College, Bhowanipore.

St. Paul's C.M. College, Calcutta.

St. Xavier's College.

Uttarpara College.

Victoria College, Comilla.

Victoria College, Cooch Bihar.

Victoria College, Narail.

Vidyasagar College.

Wesleyan Mission College, Bankura.

**CALCUTTA MADRASAH**, Wellesley Square, Calcutta.

Founded by Warren Hastings in 1780.

The Madrasah as at present existing provides through the medium of the Arabic Department a linguistic and Islamic training, based in great part on the systems in vogue in the ancient seats of Arabic learning, with a course of reading in Persian or English, and, through the medium of the Anglo-Persian Department, a High School education qualifying pupils for admission to the Matriculation Examination of the Calcutta University. The Madrasah is a Government Institution, and is under the control of the Director of Public Instruction, Bengal.

*Session* : July to May.

*Budget* : Current Expenditure: Rs. 62,000.

*Students* : 520 (exclusive of 580 in Anglo-Persian Department).

OFFICIAL.

*Principal*.—A. H. Harley, M.A.

ARABIC DEPARTMENT: PROFESSORS.

M. M. A. Tonki, <i>Arabic</i> (Head Maulvi).	M. Mazhar, <i>Arabic</i> .
M. N. Husain, „	M. Quasim, „
S. M. Safiullah, „	M. Suhul, „
M. Karim, „	M. J. Ansari, „
M. Ishaq, „	K. I. M. Arab, „
M. Yahya, „	S. H. Ali, B.A. (Head Master).
A. Samad, „	Samiruddin, B.A.
S. Wasiuddin, „	

ANGLO-PERSIAN DEPARTMENT: MASTERS.

*Head Master*.—M. Yusuf, M.A.

*Assistant Head Master*.—K. P. Bhattacharya, B.A.

R. Quads, <i>Anglo-Persian</i> .	A. Khaled, <i>Anglo-Persian</i> .
Azhar-us-Sadain, „	S. Ahmad, „
S. Khaliluddin, „	S. Shah, „
M. Ahmad, „	A. S. M. Karim, „
M. A. Mannan, „	Z. A. Khan, „
Besharatullah, „	M. A. Ali, „
H. Nazir, „	M. Qasim, „
M. Taheruddin, „	K. Dutt, „
S. M. A. Ghani, „	B. K. Chakravarty, „

**Post-Graduate Courses.**—The Title Classes provide a special course in the Traditions of Islam and Arabic Literature after the completion of the Senior Course.

**Libraries.**—The Library contains about 15,000 volumes, Arabic, Persian, and Urda literature, being specially well represented. *Librarian* : Maulvi A. M. Fazlul Wahhab.

**SCOTTISH CHURCHES COLLEGE**, Cornwallis Square, Calcutta. (1831.)

The College is affiliated to the Calcutta University, and teaches up to the Honours standard in English, Philosophy, Sanskrit, History, Economics, Mathematics, Physics, and Chemistry in the B.A. course, and in Mathematics, Physics, and Chemistry in the B.Sc. course.

*Terms* : Three a year.

*Students* : 1,127.

OFFICIAL.

*Principal*.—Rev. J. Watt, M.A., D.D.

**Library.**—Of 12,000 volumes.

**ST. PAUL'S CATHEDRAL COLLEGE**, 33, Amherst Street, Calcutta. (1860.)

*Terms* : Three a year.

*Students* : 240.

OFFICIALS.

*Principal*.—Rev. W. E. S. Holland, M.A.

*Vice-Principal*.—Rev. A. B. Johnston, M.A.

**Degrees conferred.**—B.A., I.A.

## PROFESSORS.

Rev. A. B. Johnston, <i>English</i> .	K. L. Banerji, <i>Philosophy</i> .
Rev. R. J. Kennedy     ,,	D. Mondle     ,,
J. S. Zemin, <i>English</i> .	J. C. Mondle, <i>Mathematics</i> .
W. S. A. Robertson, <i>English</i> .	S. C. Basu     ,,
H. Stuart, <i>English</i> .	D. Basu, <i>Economics</i> .
H. K. Bose     ,,	J. Bhattacharji, <i>Sanskrit and Bengali</i> .
Rev. W. E. S. Holland, <i>History</i> .	P. Chatterji     ,,
S. P. Vaswani, <i>History</i> .	D. Sircar, <i>Chemistry</i> .
P. Mahanti     ,,	1 Demonstrator.

Library.—College Library. *Librarian* : H. Stuart, M.A.

**DAVID HARE TRAINING COLLEGE FOR SECONDARY TEACHERS**, College Square, Calcutta. (1908.)

Affiliated to Calcutta University.

*Terms* : One a year.

*Students* : 50.

## OFFICIAL.

*Principal*.—W. E. Griffith, M.A.

**Degrees conferred**.—L.T. Diploma (Licentiate in Teaching) no hood; B.T. Degree (Bachelor of Teaching). Hood of black silk or stuff, edged on the inside with a border of purple-coloured silk.

Library.—A Technical and General Library. *Librarian* : Manmattr Nath Mitra.

**GEOLOGICAL SURVEY OF INDIA**, and Geological Museum, 27, Chowringhee Road, Calcutta. (1856.)

*Director*.—H. H. Hayden, C.S.I., C.I.E., B.A., B.A.I., D.Sc., F.R.S., F.G.S., F.A.S.B.  
*Superintendents*.—

E. W. Vredenburg, B.L., B.Sc., A.R.S.M., A.R.C.S., F.G.S.

L. Leigh Fermor, O.B.E., A.R.S.M., D.Sc., F.G.S.

E. H. Pascoe, M.A., D.Sc., F.G.S.

*Assistant Superintendents*.—

G. E. Pilgrim, G. H. Tipper, H. Walker, K. A. K. Hallowses, G. de P. Cotter,

J. C. Brown, H. C. Jones, A. M. Heron, M. Stuart, C. S. Fox, R. W. Palmer,

S. Sethu Rama Rau, M. Vinayak Rao.

*Chemist*.—W. A. K. Christie.

*Head Clerk*.—A. K. Banerji.

Geological Museum, Library, and Office, Calcutta.

Library.—Nearly 30,000 volumes.

**Publications**.—*Records*, *Memoirs*, and *Paleontologia Indica*.

**ASIATIC SOCIETY OF BENGAL**, 1, Park Street, Calcutta. (1784.)

## OFFICERS AND MEMBERS OF COUNCIL OF THE SOCIETY.

*President*.—Mahamahopadhyaya Haraprasad Shastri, C.I.E., M.A., F.A.S.B.

*Vice-Presidents*.—

The Hon. Justice Sir Asutosh Mukhopadhyaya, Kt., C.S.I., D.L., D.Sc., F.R.S.E., F.R.A.S., F.A.S.B.

The Hon. F. J. Monahan, I.C.S.

Lieut.-Col. W. D. Sutherland, C.I.E., M.D., F.A.S.B., I.M.S.

G. C. Simpson, D.Sc., F.R.S., F.A.S.B.

*General Secretary*.—W. A. K. Christie, B.Sc., Ph.D., F.A.S.B.

*Treasurer*.—R. D. Mehta, C.I.E.

*Philological Secretary*.—The Hon. Abdulla Al-Ma'mun Suhrawardy, Iftikharul Millat M.A., Ph.D., F.A.S.B.

*Natural History Secretaries*.—

*Biology* : F. H. Gravely, D.Sc., F.A.S.B.

*Physical Science* : Sir P. C. Ray, Kt., C.I.E., D.Sc., Ph.D., F.A.S.B.

*Anthropological Secretary*.—N. Annandale, D.Sc., C.M.Z.S., F.L.S., F.A.S.B.



## CALCUTTA ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

*Joint Philological Secretary.*—Mahamahopadhyaya Satis Chandra Vidyabhusana, M.A., Ph.D., F.A.S.B.

*Medical Secretary.*—Lieut.-Col. D. McCay, M.D., F.A.S.B., I.M.S.

*Hon. Librarian.*—The Hon. Justice Sir Asutosh Mukhopadhyaya, Kt., C.S.I., D.L., D.Sc., F.R.S.E., F.R.A.S., F.A.S.B.

The Library contains 21,000 printed books and pamphlets, 1,000 periodicals, and 17,850 manuscripts.

### Publications.—

*Asiatic Researches* (1788-1836).

*Journal* (since 1832).

*Proceedings* (since 1865).

*Journal and Proceedings* (since 1905).

*Bibliotheca Indica* (since 1848).

*Memoirs* (since 1905).

## CALHOUN (Louisiana).

### EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—W. R. Dodson.

## CAMBRIDGE.

### THE UNIVERSITY OF CAMBRIDGE.

*Terms* : Three per year.

*Students (Undergraduates)* : 4,582.

### OFFICIALS.

*Chancellor.*—The Right Hon. John William Strutt, Baron Rayleigh, O.M., M.A., Hon. Sc.D. (Trin.).

*Vice-Chancellor.*—Sir Arthur Everett Shipley, Sc.D. (Chr.).

*High Steward.*—(Vacant).

*Deputy High Steward.*—John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

*Representatives in Parliament.*—

John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

Prof. Sir Joseph Larmor, M.A. (Joh.).

*Commissary.*—John Frederick Peel Rawlinson, K.C., LL.M. (Trin.).

*Proctors.*—

John Macalister Dodds, M.A. (Pet.).

Robert Alfred Herman, M.A. (Trin.).

*Public Orator.*—T. R. Glover.

*Registrar.*—John Neville Keynes, Sc.D. (Pemb.).

*Librarian.*—Francis John Henry Jenkinson, M.A. (Trin.).

*Counsel.*—

John Alderson Foote, K.C., M.A. (Joh.).

Mark Lemon Romer, K.C., M.A. (Trin. H.).

*Esquire Bedells.*—

Arthur Humble Ekans, M.A. (Cla.).

Rupert Hamblin Smith, M.A. (Pet.).

*Deputy Vice-Chancellors for the Years 1918-1919.*—

Dr. Giles, Master of Emmanuel.

Mr. Fitzpatrick, President of Queens'.

*Sex Viri.*—Dr. Pearce, Sir W. Durnford, G.B.E., Professor Buckland, Dr. Giles,

Mr. R. F. Scott, Dr. Kenny.

*Court of Discipline.*—Dr. Anderson, Mr. A. Gray, Mr. Fitzpatrick, Mr. Hadley, Dr. Mollison, Mr. R. F. Scott.

*Auditors of Chest.*—Mr. Hadley, Mr. Corbett (King's), Mr. Peel (Magd.).

*Moderators.*—Mr. Welsh (Jes.), Mr. Hardy (Trin.).

*Deputy Proctors.*—Mr. Munro (Qu.), Mr. Ramsey (Magd.).

*Pro-Proctors.*—Mr. Glover (Joh.), Mr. Rushmore (Cath.).

*Organist.*—A. H. Mann, Mus.D. (Oxf.), Hon. M.A. (King's).

*Sir Robert Rede's Lecturer.*—The Right Hon Lord Moulton, K.C.B., G.B.E., M.A. Hon. LL.D. (Chr.).

*Lady Margaret's Preacher.*—The Ven. A. G. Robinson, M.A.

*Hulsean Lecturer.*—The Rev. A. Nairne, D.D. (Jes.).

### Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. - -	Black silk, trimmed with white fur.
B.C. - -	Black silk, lined with pink silk.
B.D. - -	Black silk.
D.D. - -	Scarlet cloth, lined pink and violet shot silk.
Litt.D. - -	Scarlet cloth, lined scarlet silk.
LL.B. - -	Black silk, trimmed with white fur.
LL.D. - -	Scarlet silk, lined light cherry-coloured silk.
LL.M. - -	Black silk, lined with white silk.
M.A. - -	Black silk, lined with white silk.
M.B. - -	Black silk, lined with pink silk.
M.C. - -	Black silk, lined with white silk.
M.D. - -	Scarlet cloth, lined with dark cherry-coloured silk.
Mus.B. - -	Dark cherry-coloured satin, lined with white fur.
Mus.M. - -	Black silk, lined with white silk.
Mus.D. - -	Damasked cream-white silk, lined with dark cherry-coloured satin.
Sc.D. - -	Scarlet cloth, lined with pink and blue silk.

### PROFESSORS.

#### FACULTY OF DIVINITY.

##### Professors :

- J. F. Bethune-Baker, *Divinity*.  
V. H. Stanton, *Divinity*.  
F. C. Burkitt, "  
W. E. Barnes, "  
A. E. Brooke, "

##### Lecturer :

- T. H. Greig, *Pastoral Theology*.

#### FACULTY OF LAW.

##### Professors :

- W. W. Buckland, *Civil Law*.  
H. D. Hazeltine, *Law*.  
L. Oppenheim, *International Law*.

#### FACULTY OF MEDICINE.

##### Professors :

- Sir T. Clifford Allbutt, *Physics*.  
A. Macalister, *Anatomy*.  
J. B. Bradbury, *Medicine*.  
J. N. Langley, *Physiology*.  
G. Sims Woodhead, *Pathology*.

##### Reader :

- J. Barcroft, *Physiology*.

##### Lecturers :

- J. E. Purvis, *Chemistry and Physics in their application to Hygiene and Preventive Medicine*.  
G. S. Graham-Smith, *Hygiene*.  
S. W. Cole, *Medical Chemistry*.  
L. Cobbett, *Pathology*.  
W. E. Dixon, *Pharmacology*.  
W. B. Hardy, *Physiology*.  
L. E. Shore, *Physiology* (Advanced).  
A. V. Hill, *Physiology*.  
H. Hartridge, *Physiology of the Senses*.  
T. S. P. Strangeways, *Special Pathology*.  
F. Deighton, *Vaccination*.

#### MATHEMATICS, ASTRONOMY, PHYSICS, CHEMISTRY, AND MINERALOGY, ETC.

##### Professors :

- Sir Joseph Larmor, *Mathematics*.  
Sir W. J. Pope, *Chemistry*.  
A. S. Eddington, *Astronomy*.  
H. F. Baker, *Astronomy and Geometry*.  
Sir James Dewar, *Natural Philosophy*.  
W. J. Lewis, *Mineralogy*.  
E. W. Hobson, *Pure Mathematics*.  
Sir E. Rutherford, *Experimental Physics*.  
C. E. Inglis, *Mechanism and Applied Mechanics*.  
H. F. Newall, *Astrophysics*.  
F. G. Hopkins, *Biochemistry*.

##### Readers :

- C. T. Heycock, *Metallurgy*.  
A. Harker, *Petrology*.

##### Lecturers :

- F. J. M. Stratton, *Astrophysics*.  
H. J. H. Fenton, *Chemistry*.  
C. G. Lamb, *Electrical Engineering*.  
G. F. O. Searle, *Experimental Physics*.  
C. T. R. Wilson, "  
C. S. Myers, *Experimental Psychology*.  
H. W. Richmond, *Mathematics*.  
R. A. Herman, "  
T. J. I'A. Bromwich, "  
J. H. Grace, *Mathematics*.  
A. Berry, "  
G. H. Hardy, "

#### BIOLOGY AND GEOLOGY.

##### Professors :

- A. C. Seward, *Botany*.  
J. E. Marr, *Geology*.  
J. S. Gardiner, *Zoology and Comparative Anatomy*.  
G. H. F. Nuttall, *Biology*.  
R. C. Punnett, *Genetics*.

**Readers :**

F. F. Blackman, *Botany*.  
F. G. Hopkins, *Chemical Physiology*.  
Sir A. E. Shipley, *Zoology*.  
A. C. Haddon, *Ethnology*.

**Lecturers :**

H. Gadow, *Advanced Morphology of Vertebrates*.  
A. G. Tansley, *Botany*.  
E. H. Minns, *Paleography*.  
H. Woods, *Paleozoology*.  
W. L. H. Duckworth, *Physical Anthropology*.  
L. A. Borradaile, *Zoology*.  
L. Doncaster, *Zoology*.

**ORIENTAL LANGUAGES.**

**Professors :**

R. H. Kennett, *Hebrew*.  
E. G. Browne, *Arabic*.  
A. A. Bevan, "  
E. J. Rapson, *Sanskrit*.  
H. A. Giles, *Chinese*.

**Reader :**

I. Abrahams, *Talmudic*.

**Lecturers :**

N. McLean, *Aramaic*.  
R. A. Nicholson, *Persian*.

**CLASSICS, ETC.**

**Professors :**

H. Jackson, *Greek*.  
A. E. Housman, *Latin*.  
H. M. Chadwick, *Anglo-Saxon*.

**Readers :**

P. Giles, *Comparative Philology*.  
W. Ridgeway, *Classics*.

**Lecturer :**

S. G. Campbell, *Classics (Epigraphy and Dialects)*.

**MODERN LANGUAGES.**

**Professors :**

K. Breul, *German*.  
Sir A. T. Quiller-Couch, *English Literature*.  
T. Okey, *Italian*.

**Reader :**

E. G. W. Braunscholtz, *Romance*.

**Lecturers :**

E. C. Quiggin, *German*.  
A. O. Goudy, *Russian*.

**HISTORY AND ARCHEOLOGY.**

**Professors :**

J. B. Bury, *Modern History*.  
W. Ridgeway, *Archeology*.  
J. P. Whitney, *Ecclesiastical History*.  
J. S. Reid, *Ancient History*.  
J. Holland Rose, *Naval History*.

**Readers :**

A. B. Cook, *Classical Archeology*.  
J. H. Rose, *Modern History*.

**Lecturer :**

T. R. Glover, *Ancient History*.

**GEOGRAPHY.**

**Lecturers :**

H. Y. Oldham, *Geography (Historical and Economic)*.  
P. Lake, *Geography (Regional and Physical)*.  
C. S. Wright, *Surveying and Cartography*.

**AGRICULTURE.**

**Professors :**

T. B. Wood, *Agriculture*.  
R. H. Biffin, *Agricultural Botany*.  
W. Dawson, *Forestry*.  
K. J. J. Mackenzie, *Agriculture*.

**Lecturers :**

F. H. A. Marshall, *Agricultural Physiology*.  
C. R. Fay, *Agriculture*.

**MORAL SCIENCES, ETC.**

**Professors :**

W. R. Sorley, *Moral Philosophy*.  
A. C. Pigou, *Political Economy*.  
J. Ward, *Mental Philosophy and Logic*.

**Lecturers :**

J. M. Keynes, *Economics*.  
W. T. Layton, "  
G. E. Moore, *Moral Science*.  
W. E. Johnson, "  
G. Udny Yule, *Statistics*.

**MUSIC.**

**Professor :**

Sir Charles V. Stanford, *Music*.

**Lecturer :**

C. Wood, *Harmony and Counterpoint*.

**FINE ART.**

**Professor :**

E. S. Prior, *Fine Arts*.

**COLLEGES AND COLLEGE LECTURERS.**

**Peterhouse College.**

*Master*.—Sir Adolphus W. Ward, M.A., Litt.D.  
*Tutor*.—H. J. Edwards, M.A. [M.A.  
*Assistant Tutor*.—H. W. V. Temperley,

**Lecturers :**

J. M. Dodds, *Mathematics*.  
J. H. Grace, "  
H. J. Edwards, *Classics*.  
H. W. V. Temperley, *History*.



### Clare College.

*Master.*—W. Loudon Mollison, M.A., LL.D.

*Tutor.*—J. R. Wardale, M.A.

#### Lecturers :

W. J. Harrison, *Mathematics*.  
J. R. Wardale, *Classics*.  
Rev. P. C. T. Crick, *Theology*.  
A. P. Higgins, *Law*.  
H. Thirkill, *Physics and Chemistry*.  
H. H. Brindley, *Biology and Zoology*.  
F. Roberts, *Physiology*.  
M. D. Forbes, *English*.  
Rev. J. M. V. Hope, *Moral Philosophy*.

### Pembroke College.

*Master.*—W. Sheldon Hadley, M.A.

*Tutor.*—J. C. Lawson, M.A.

#### Lecturers :

G. Birtwistle, *Mathematics*.  
J. C. Lawson, *Classics*.  
W. S. Hadley, "  
L. Whibley, "  
J. R. Mozley, *Divinity*.  
A. Hutchinson, *Natural Science*.  
W. S. Hadley, *Modern History*.  
L. Whibley, *Ancient History*.  
G. P. Moriarty, *History*.  
G. H. Ziegler, *Law*.  
H. C. Comber, *Modern Languages*.  
J. C. Lawson, *Modern Greek*.  
E. H. Morris, *Russian*.  
J. T. Spittle, *Mechanical Science*.  
J. M. Keynes, *Economics*.

### Gonville and Caius College.

*Master.*—H. K. Anderson, M.A., M.D., F.R.S.

*Tutors.*—

W. B. Hardy, M.A., Sec. R.S.  
J. F. Cameron, M.A. (Senior).  
F. J. M. Stratton, D.S.O., M.A.  
A. D. McNair, C.B.E., M.A., LL.M.

#### Lecturers :

E. G. Gallop, *Mathematics*.  
J. F. Cameron, "  
F. J. M. Stratton, "  
W. T. Vesey, *Classics*.  
J. E. Scott, "  
A. D. McNair, *Law*.  
Z. N. Brooke, *History*.  
R. F. D'Arcy, *Physics*.  
W. B. Hardy, *Physiology*.  
O. Forster Cooper, *Zoology*.  
D. G. Reid, *Anatomy*.  
F. T. Brooks, *Botany*.  
H. H. Brindley, *Biology*.  
H. Woods, *Geology*.  
Rev. J. W. Hunkin, *Divinity*.  
S. A. Cook, *Hebrew and Syriac*.  
S. A. Cook, *Comparative Study of Religion*.  
C. Wood, *Music*.

#### Lecturers—Continued ;

E. C. Quiggin, *Modern Languages and Celtic*.  
J. F. Cameron, *Engineering*.  
C. S. Myers, *Moral Sciences and Psychology*.

### Trinity Hall.

*Master.*—Henry Bond, M.A., LL.D.

*Tutors.*—

Rev. G. A. Chase.  
W. St. J. Pym.

#### Lecturers :

Rev. C. F. Angus, *Classics*.  
H. Bond, *Law*.  
D. T. Oliver, *Law*.  
Rev. G. A. Chase, *Divinity*.  
F. A. Potts, *Natural Science*.  
J. E. S. Green, *History*.  
F. W. Dootson, *Chemistry and Physics*.  
R. A. Hayes, *Engineering*.

### Corpus Christi College.

*Master.*—Rev. Edmund Courtenay Pearce.

*Tutor.*—W. Spens.

#### Lecturers :

G. P. Thomson, *Mathematics*.  
G. G. Morris, *Classics*.  
W. Spens, *Natural Science*.  
Rev. E. C. Hookyns, *Theology*.  
Sir G. G. G. Butler, *History*.  
K. W. M. Pickthorn, *History*.

### King's College.

*Provost.*—Sir Walter Durnford, M.A., LL.D., G.B.I.

*Vice-Provost.*—W. H. Macaulay, M.A.

*Tutor.*—J. H. Clapham.

#### Lecturers :

A. Berry, *Mathematics*.  
H. W. Richmond, *Mathematics*.  
H. H. Sills, *Classics*.  
J. T. Sheppard, *Classics*.  
F. E. Adcock, *Classics*.  
Rev. A. E. Brooke, *Divinity*.  
G. L. Dickinson, *History and Economics*.  
F. W. Reddaway, "  
J. H. Clapham, "  
J. M. Keynes, "  
C. T. Heycock, *Natural Science*. "  
J. Barcroft, "  
A. A. Tilley, *Modern Languages*.  
L. B. Turner, *Mechanical Science*.

### Queens' College.

*President.*—Rev. Thomas Cecil Fitzpatrick, M.A.

*Vice-President.*—Rev. Arthur Wright, D.D.

*Tutors.*—

Rev. A. Wright.  
Rev. Joseph H. Gray.

**Lecturers :**

A. Munro, *Mathematics*.  
 Rev. J. H. Gray, *Classics*.  
 A. B. Cook                    "  
 Rev. A. Wright, *Divinity*.  
 Rev. C. T. Wood            "  
 Rev. C. T. Wood, *Hebrew*.  
 Rev. R. G. D. Laffan, *English History and Literature*.

**St. Catharine's College.**

*Master*.—Rev. Claude Hermann Walter Johns, M.A., Litt.D., D.D.  
*President*.—Rev. E. T. S. Carr.  
*Tutor*.—F. M. Rushmore.

**Lecturers :**

H. W. Spratt, *Classics*.  
 W. H. S. Jones            "  
 F. M. Rushmore, *History*.  
 W. H. S. Jones, *Ancient History*.

**Jesus College.**

*Master*.—Arthur Gray, M.A.  
*Tutors*.—

E. Abbott, M.A.  
 C. A. Elliott, M.A.

**Lecturers :**

J. H. H. Goodwin, *Mathematics*.  
 W. Welch, *Mathematics*.  
 A. Gray, *Classics*.  
 E. Abbott                    "  
 W. H. Duke                "  
 Rev. A. Nairne, *Theology*.  
 W. L. H. Duckworth, *Natural Science*.  
 W. H. Mills, *Natural Science*.  
 C. A. Elliott, *History and Economics*.

**Christ's College.**

*Master*.—Sir Arthur Everett Shipley, M.A., Sc.D., F.R.S.  
*Tutors*.—

Norman McLean, M.A.  
 Harris Rackham, M.A.  
 { Francis Hugh Adam Marshall, Sc.D.

**Lecturers :**

J. Mercer, *Mathematics*.  
 C. G. Darwin                "  
 H. Rackham, *Classics*.  
 S. G. Campbell            "  
 R. H. Rastall, *Natural Science*.  
 Rev. A. V. Valentine-Richards, *Theology*.  
 N. McLean, *Hebrew*.  
 D. L. Harris, *Law*.  
 C. R. Fay, *History and Economics*.  
 B. W. Downs, *Medieval and Modern Languages*.

**St. John's College.**

*Master*.—Robert Forsyth Scott, M.A.  
*Provost*.—George Downing Liveing, Hon. Sc.D., F.R.S.

**Tutors.—**

Edward Ernest Sikes, M.A.  
 Ernest Alfred Benians, M.A.  
 Bernard Francis Armitage, M.A.

**Lecturers :**

T. J. P.A. Bromwich, *Mathematics*.  
 E. Cunningham            "  
 T. L. Wren, *Mathematics*.  
 E. E. Sikes, *Classics*.  
 T. R. Glover                "  
 A. J. Campbell, *Classics*.  
 Rev. J. M. Creed, *Theology*.  
 Rev. J. C. H. How, *Hebrew*.  
 J. R. Tanner, *History*.  
 E. A. Benians                "  
 Rev. H. F. Steward, *Modern Languages*.  
 P. H. Winfield, *Law*.  
 C. B. Rootham, *Music*.

**Magdalene College.**

*Master*.—Arthur Christopher Benson, LL.D., C.V.O.  
*President and Tutor*.—Arthur S. Ramsey, M.A.

**Lecturers :**

A. S. Ramsay, *Mathematics*.  
 V. S. Vernon Jones, *Classics*.  
 A. C. Benson, *History*.  
 F. R. Salter                "  
 T. Peel, *Engineering*.  
 S. Gaseler, *Paleography*.  
 E. Hindle, *Natural Science*.

**Trinity College.**

*Master*.—Sir Joseph John Thomson, M.A., O.M., Pres. R.S.  
*Vice-Master*.—Reginald St. John Parry.  
*Tutors*.—

Reginald Orre Lawrence, M.A.  
 Ernest Harrison, M.A.  
 Guillard Thomas Lapsley, M.A.  
 Denys Arthur Winstanley, M.A.  
 Frederick James Dykes, M.A.

**Lecturers :**

G. H. Hardy, *Mathematics*.  
 J. E. Littlewood            "  
 S. Chapman                "  
 G. I. Taylor                "  
 F. M. Cornford, *Classics*.  
 E. Harrison                "  
 D. S. Robertson            "  
 J. McT. Ellis McTaggart, *Moral Sciences*.  
 W. C. D. Whetham, *Natural Science*.  
 E. D. Adrian                "    "  
 T. C. Nicholas                "    "  
 F. R. Tennant, *Theology*.  
 H. A. Holland, *Law*.  
 R. V. Lawrence, *History*.  
 G. T. Lapeley                "  
 D. A. Winstanley            "  
 F. A. Simpson                "  
 J. R. M. Butler             "

**Lecturers—Continued :**

A. A. Bevan, *Oriental Languages*.  
F. J. Dykes, *Mechanical Science*.  
R. U. Southwell, *Mechanical Science*.  
D. R. Pye, *Mechanical Science*.  
D. A. Robertson, *Economics*.  
T. R. Glover, *Ecclesiastical History*.  
J. R. Tanner, *Military History*.  
J. R. Tanner, *Philosophy of Sciences*.

**Emmanuel College.**

*Master*.—Peter Giles, M.A., Litt.D.

*Tutors*.—

Rev. F. W. Head, M.A., M.C.  
L. H. G. Greenwood, M.A.  
A. Wood, M.A.  
P. W. Wood, M.A.

**Lecturers :**

P. W. Wood, *Mathematics*.  
L. H. G. Greenwood, *Classics*.  
F. H. Bashall, *Classics*.  
Rev. C. E. Raven, *Divinity*.  
Rev. F. W. Head, *History*.  
A. Wood, *Natural Science*.  
T. J. Hele       "       "  
J. W. Lesley   "       "  
E. W. Naylor, *Music*.

**Sidney Sussex College.**

*Master*.—Rev. G. A. Weekes, M.A.

*Tutors*.—

Rev. G. A. Weeks, M.A.  
T. Knox-Shaw.

**Lecturers :**

R. H. D. Mayall, *Mathematics*.  
T. Knox-Shaw       "  
R. Hackforth, *Classics*.  
C. R. A. Thacker, *Natural Science*.  
B. T. D. Smith, *Theology*.  
Rev. E. J. Passant, *History*.

**Downing College.**

*Master*.—Albert Charles Seward, M.A.  
F.R.S.

*Tutor*.—James Henry Widdicombe, M.A.

**Lecturers :**

C. H. French, *Mathematics*.  
D. L. Harris, *Law*.  
Rev. E. J. Passant, *History*.  
A. J. Berry, *Chemistry and Physics*.  
J. H. Widdicombe, *Physiology*.  
H. Hamshaw Thomas, *Botany*.  
A. B. Appleton, *Human Anatomy*.  
D. Portway, *Engineering*.  
W. E. Johnson, *Moral Sciences*.  
W. S. Thatcher, *Economics*.  
A. Amos, *Agriculture*.

**Selwyn College.**

*Master*.—Rev. John Owen Farquhar  
Murray, M.A., D.D.

*Vice-Master*.—William Edward Jordan  
M.A.

*Tutors*.—

Hammett Charles Knott, M.A.  
William Edward Jordan, M.A.  
Rev. Spencer Cecil Carpenter, M.A.

**Lecturers :**

H. C. Knott, *Mathematics*.  
W. E. Jordan, *Classics*.  
W. N. Williams       "  
L. A. Borradaile, *Natural Science*.  
Rev. S. C. Carpenter, *Theology*.  
Rev. F. S. Marsh       "  
W. E. Jordan, *History*.

**Fitzwilliam Hall.**

*Censor*.—W. F. Reddaway, M.A.

**SUPERINTENDENTS, CURATORS, ETC.**

*Assistant Registry*.—B. Benham.

*Hon. Under-Librarian*.—H. T. Francis. (University Library.)

*Under-Librarians*.—E. J. Thomas, and A. T. Bartholomew. (University Library.)

*Additional Under-Librarian*.—C. E. Sayle. (University Library.)

*Hon. Keeper of the Chinese Books*.—Prof. H. A. Giles. (University Library.)

*Director*.—Prof. Eddington. (Observatory.)

*Chief Assistant*.—W. M. Smart. (Observatory.)

*Second Assistant*.—H. E. Green. (Observatory.)

*Director and Newall Observer*.—Prof. H. F. Newall. (Solar Physics Observatory.)

*Assistant Director*.—F. J. M. Stratton. (Solar Physics Observatory.)

*Observer in Meteorological Physics*.—C. T. R. Wilson. (Solar Physics Observatory.)

*First Senior Observer*.—F. E. Baxandall. (Solar Physics Observatory.)

*Second Senior Observer*.—C. P. Butler. (Solar Physics Observatory.)

*Director of the Fitzwilliam Museum*.—S. C. Cockerell.

*Hon. Keeper of the Egyptian Antiquities*.—F. W. Green. (Fitzwilliam Museum.)

*Hon. Keeper of the Greek and Roman Antiquities*.—F. H. Marshall. (Fitzwilliam Museum.)

*Hon. Keeper of the Medieval Department*.—Sir W. H. St. John Hope. (Fitzwilliam Museum.)

*Hon. Keeper of the Pictures*.—E. O. Vulliamy. (Fitzwilliam Museum.)

*Hon. Keeper of the Prints*.—J. Charrington. (Fitzwilliam Museum.)



## CAMBRIDGE ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

*Hon. Keeper of the Pottery and Porcelain.*—J. W. L. Glaisher. (Fitzwilliam Museum.)  
*Hon. Keeper of the Music.*—E. J. Dent. (Fitzwilliam Museum.)  
*Curator.*—A. B. Cook. (Museum of Classical Archeology.)  
*Curator.*—Baron A. von Hügel. (Museum of Archeology and of Ethnology.)  
*Superintendent.*—C. F. Cooper. (Museum of Zoology.)  
*Strickland Curator.*—H. Gadow.  
*Director of the Psychological Laboratory.*—C. S. Myers.  
*Curator in Entomology.*—H. Scott.

**GIRTON COLLEGE**, Cambridge. (1869.)

*Terms:* As Cambridge University.

*Students:* 167.

### OFFICIALS.

*Mistress.*—Miss K. Jex-Blake, M.A.

*Vice-Mistress and Bursar.*—Miss E. M. Allen, M.A.

*Secretary.*—M. Clover, M.A.

7 Resident Lecturers. 12 Staff Lecturers.

**Degrees conferred.**—At present students are not admitted to the Degrees of University of Cambridge though they are admitted to its Honours Degree Examinations and receive Certificates from the University stating the classes they have obtained.

**Post-Graduate Courses.**—Students can take post-graduate courses in accordance with the regulations of the University of Cambridge.

### Libraries.—

Stanley Library—General.

Cowell Library—Oriental works, chiefly Sanskrit.

May Frere Library—Oriental works, Hebrew MSS., etc.

Ethel Sargant Library—Botanical works.

Blackburn Library—Relating to women's questions.

Somerville Library—Mary Somerville's Mathematical books.

Credsdon bequest of Egyptian books and antiquities.

Saumarez Collection of Tanagre figures.

Total number of volumes, 17,195.

*Librarian:* Miss E. S. Fegan.

**NEWMHAM COLLEGE**, Cambridge. (1871.)

*Terms:* As Cambridge University.

*Students:* 240.

### OFFICIALS.

*Principal.*—Miss Stephen.

*Vice-Principal.*—Miss B. A. Clough.

*Bursar.*—Mrs. Henry Sidgwick.

*Librarian.*—Miss M. Fletcher.

### COLLEGE LECTURERS.

A. B. Collier (Miss), *Mathematics*.

J. E. Harrison (Miss), *Classics*.

E. R. Saunders (Miss) } *Natural*

G. L. Elles (Miss) } *Sciences*.

J. M. W. Slater (Miss) }

C. B. Firth (Miss), *History*.

J. P. Strachey (Miss), *Modern Lan-*

M. S. Smith (Miss), *English*. [guages.

A. C. Paues (Miss) "

Grier (Miss), *Economics*.

2 Assistant Lecturers and 5 Associate

Fellows.

## CAMBRIDGE (Massachusetts).

**HARVARD UNIVERSITY** (of which Harvard College is a part), Cambridge, Mass. (1636.)

*Terms:* One per year—September to June.

The total number of students in the University, during the past five academic years was as follows: (1914-15) 5,699, (1915-16) 6,306, (1916-17) 6,952, (1917-18) 4,515, (1918-19) 4,891.

In the Harvard College alone the figures were as follows: (1914-15) 2,473, (1915-16) 2,519, (1916-17) 2,582, (1917-18) 1,681, (1918-19) 2,183.

## OFFICIAL.

*President.*—Abbott Lawrence Lowell, A.B., LL.B., LL.D., Ph.D.

The Corporation, or "President and Fellows," consists of The President, the Treasurer, and Five Fellows. It is a self-perpetuating body.

The Board of Overseers consists of thirty members, elected by the alumni.

The Corporation and Board of Overseers are together known as The Governing Boards.

The various Faculties and Schools are presided over by Deans.

**Degrees conferred.**—A.B., S.B., A.M., S.M., E.M., M.E., S.D., Ph.D., M. Arch., M.L.A., M.F., M.B.A., Ph.D. in Business Economics, LL.B., LL.D., M.D., D.P.H., D.M.D., S.T.B., S.T.M., Th.D., Associate in Arts.

The following honorary degrees: A.M., A.D., D.D., LL.D., S.D., Litt.D.

## PROFESSORS.

## FACULTY OF ARTS AND SCIENCES.

## Professors :

Le Baron R. Briggs, *Rhetoric and Oratory*.  
C. R. Lanman, *Sanskrit*.  
E. L. Mark, *Anatomy*.  
E. S. Sheldon, *Romance Philology*.  
C. A. Williams, *Military Science and Tactics*.  
E. H. Hall, *Physics*.  
H. W. Smyth, *Greek Literature*.  
Hans C. G. von Jagemann, *Germanic Philology*.  
E. Channing, *Ancient and Modern History*.  
P. H. Hanus, *History and Art of Teaching*.  
F. W. Taussig, *Economics*.  
J. E. Wolff, *Petrography and Mineralogy*.  
A. B. Hart, *Science of Government*.  
A. G. McAdie, *Meteorology*.  
A. Michael, *Organic Chemistry*.  
B. Perry, *English Literature*.  
A. A. Howard, *Latin*.  
G. L. Kittredge, *English Literature*.  
C. H. Grandgent, *Romance Languages*.  
L. Wiener, *Slavic Languages and Literature*.  
H. C. Bierwirth, *German*.  
F. J. Turner, *History*.  
T. W. Richards, *Chemistry*.  
E. P. Kohler, *Chemistry*.  
W. F. Osgood, *Mathematics*.  
G. G. Wilson, *International Law*.  
G. P. Baker, *Dramatic Literature*.  
A. C. Coolidge, *History*.  
C. H. Haskins, *History*.  
B. S. Hurlbut, *English*.  
G. H. Parker, *Zoology*.  
B. L. Robinson, *Systematic Botany*.  
W. M. Wheeler, *Economic Entomology*.  
J. H. Woods, *Philosophy*.  
E. C. Jeffrey, *Plant Morphology*.

## Professors—Continued :

J. L. Lowes, *English*.  
I. Babbitt, *French Literature*.  
C. J. Bullock, *Economics*.  
W. E. Castle, *Zoology*.  
R. M. Johnston, *Modern History*.  
C. H. Moore, *Latin*.  
G. A. Reisner, *Egyptology*.  
W. H. Schofield, *Comparative Literature*.  
R. De C. Ward, *Climatology*.  
C. B. Gulick, *Greek*.  
W. Z. Ripley, *Political Economy*.  
T. N. Carver, *Political Economy*.  
R. A. Daly, *Geology*.  
C. Palache, *Mineralogy*.  
F. N. Robinson, *English*.  
C. H. C. Wright, *French Language and Literature*.  
W. Duane, *Bio-Physics*.  
O. Folin, *Biological Chemistry*.  
J. A. Walz, *German Language and Literature*.  
W. J. V. Osterhout, *Botany*.  
G. W. Pierce, *Physics*.  
J. D. M. Ford, *French and Spanish Languages*.  
C. H. McIlwain, *History and Government*.  
E. K. Rand, *Latin*.  
J. L. Coolidge, *Mathematics*.  
E. V. Huntington, *Mechanics*.  
W. B. Munro, *Municipal Government*.  
G. P. Baxter, *Chemistry*.  
G. H. Chase, *Archeology*.  
W. S. Ferguson, *Ancient History*.  
R. B. Merriman, *History*.  
R. B. Perry, *Philosophy*.  
W. W. Atwood, *Physiography*.  
R. B. Dixon, *Anthropology*.  
M. L. Fernald, *Natural History*.  
T. Lyman, *Physics*.  
C. N. Greenough, *English*.  
W. M. Persons, *Economics*.  
W. F. Dearborn, *Education*.  
E. M. East, *Experimental Plant Morphology*.

**Professors—Continued :**

- L. C. Graton, *Economic Geology*.  
H. A. Yeomans, *Government*.  
W. E. Hocking, *Philosophy*.  
R. I. Lee, *Hygiene*.  
H. W. Holmes, *Education*.  
P. W. Bridgman, *Physics*.  
G. D. Birkhoff, *Mathematics*.

**Associate Professors :**

- G. S. Raymer, *Mining*.  
C. T. Copeland, *English*.  
I. L. Winter, *Public Speaking*.  
W. R. Spalding, *Music*.  
C. L. Bouton, *Mathematics*.  
F. L. Kennedy, *Engineering Drawing*.  
H. Wilbur Rand, *Zoology*.  
P. E. Raymond, *Paleontology*.  
J. B. Woodworth, *Geology*.

**Assistant Professors :**

- G. E. Johnson, *Education*.  
W. G. Howard, *German*.  
K. G. T. Webster, *English*.  
E. B. Hill, *Music*.  
L. Allard, *French*.  
F. A. Saunders, *Physics*.  
G. B. Weston, *Romance Languages*.  
C. N. Jackson, *Greek and Latin*.  
R. L. Hawkins, *French*.  
W. C. Heilman, *Music*.  
A. B. Lamb, *Chemistry*.  
L. J. A. Mercier, *French*.  
A. Morize, *French Literature*.  
A. E. Norton, *Mechanical Engineering*.  
P. J. Sachs, *Fine Arts*.  
A. M. Tozzer, *Anthropology*.  
O. T. Brues, *Economic Entomology*.  
A. Pope, *Fine Arts*.  
G. S. Forbes, *Chemistry*.  
A. J. Inglis, *Education*.  
L. W. Riddle, *Cryptogamic Botany*.  
A. F. Whittem, *Romance Languages*.  
R. F. A. Hoernlé, *Philosophy*.  
G. Jones, *Chemistry*.  
C. R. Post, *Greek and Fine Arts*.  
E. E. Day, *Economics*.  
J. Ford, *Social Ethics*.  
R. K. Hack, *Classics*.  
H. S. Langfeld, *Psychology*.  
A. T. Davison, *Music*.  
A. N. Holcombe, *Government*.  
R. H. Lord, *History*.  
E. L. Chaffee, *Physics*.  
J. Klein, *Economics*.  
J. S. Davis, *Economics*.  
G. H. Edgell, *Fine Arts*.  
W. C. Granstein, *Mathematics*.  
J. B. Conant, *Chemistry*.  
15 Instructors and 4 Lecturers.

**FACULTY OF MEDICINE.**

**Professors :**

- D. L. Edsall, *Clinical Medicine*.  
C. A. Brackett, *Oral Pathology*.  
E. H. Smith, *Clinical Dentistry*.  
W. T. Councilman, *Pathological Anatomy*.  
G. H. Monks, *Oral Surgery*.  
H. C. Ernst, *Bacteriology*.  
W. H. Potter, *Operative Dentistry*.  
W. P. Cooke, *Preventive Dentistry and Oral Hygiene*.  
A. Coolidge, *Laryngology*.  
R. W. Lovett, *Orthopedic Surgery*.  
W. T. Porter, *Comparative Physiology*.  
P. Thorndike, *Genito-Urinary Surgery*.  
M. J. Rosenau, *Preventive Medicine and Hygiene*.  
E. H. Nichols, *Clinical Surgery*.  
E. A. Crockett, *Otology*.  
J. L. Morse, *Pediatrics*.  
A. Quackenboss, *Ophthalmology*.  
C. A. Porter, *Clinical Surgery*.  
E. W. Taylor, *Neurology*.  
R. C. Cabot, *Clinical Medicine*.  
C. J. White, *Dermatology*.  
H. Cushing, *Surgery*.  
W. P. Graves, *Gynecology*.  
R. Hunt, *Pharmacology*.  
O. Folin, *Biological Chemistry*.  
F. S. Newell, *Clinical Obstetrics*.  
R. P. Strong, *Tropical Medicine*.  
H. A. Christian, *Theory and Practice of Physics*.  
W. B. Cannon, *Physiology*.  
E. E. Southard, *Neuropathology*.  
E. E. Tyzzer, *Comparative Pathology*.  
V. H. Kazanjian, *Military Oral Surgery*.

**Associate Professors :**

- F. B. Mallory, *Pathology*.  
J. L. Bremer, *Histology*.  
J. Warren, *Anatomy*.  
F. T. Lewis, *Embryology*.  
S. B. Wolbach, *Pathology and Bacteriology*.  
C. H. Drinker, *Applied Physiology*.

**Assistant Professors :**

- E. G. Brackett, *Orthopedic Surgery*.  
C. L. Scudder, *Surgery*.  
J. B. Blake, *Surgery*.  
H. A. Lothrop, *Surgery*.  
E. P. Joslin, *Medicine*.  
C. M. Smith, *Syphilology*.  
J. H. Wright, *Pathology*.  
R. B. Greenough, *Surgery*.  
H. P. Mosher, *Laryngology*.  
A. Hamilton, *Industrial Medicine*.  
W. H. Robey, jr., *Medicine*.  
F. H. Verhoeff, *Ophthalmic Research*.  
E. A. Boyden, *Comparative Anatomy*.  
E. A. Locke, *Medicine*.  
D. Cheever, *Surgery*.

# Assistant Professors—Continued :

- P. G. Stiles, *Physiology*.
- C. Floyd, *Bacteriology*.
- M. Fabian, *Comparative Pathology*.
- E. H. Place, *Pediatrics*.
- W. L. Moss, *Preventive Medicine*.
- R. R. Renshaw, *Chemical Research*.
- F. W. Peabody, *Medicine*.
- A. W. Sellards, *Tropical Medicine*.
- J. Bronfenbrenner, *Preventive Medicine and Hygiene*.
- G. R. Minot, *Medicine*.
- C. H. Fiske, *Biological Chemistry*.
- 18 Instructors.

## THE FACULTY OF ENGINEERING.

### Professors :

- G. F. Swain, *Civil Engineering*.
- A. E. Kennelly, *Electrical Engineering*.
- H. L. Smyth, *Mining and Metallurgy*.
- H. E. Clifford, *Electrical Engineering*.
- L. J. Johnson, *Civil Engineering*.
- A. Sauveur, *Metallurgy and Metallography*.
- G. C. Whipple, *Sanitary Engineering*.
- C. A. Adams, *Electrical Engineering*.
- L. S. Marks, *Mechanical Engineering*.
- E. V. Huntington, *Mechanics*.
- H. J. Hughes, *Civil Engineering*.
- L. C. Graton, *Economic Geology*.
- H. N. Davis, *Mechanical Engineering*.

### Associate Professors :

- G. S. Raymer, *Mining*.
- F. L. Kennedy, *Engineering Drawing*.

### Assistant Professors :

- A. E. Norton, *Mechanical Engineering*.
- G. Jones, *Chemistry*.
- E. L. Chaffee, *Physics*.
- C. L. Dawes, *Electrical Engineering*.

## THE FACULTY OF DIVINITY.

### Professors :

- W. W. Fenn, *Theology*.
- G. F. Moore, *History of Religion*.
- D. G. Lyon, *Hebrew and other Oriental Languages*.
- E. C. Moore, *Theology and Christian Morals*.
- J. R. Jewett, *Arabic*.
- J. H. Ropes, *Divinity*.
- K. Lake, *Ecclesiastical History*.

### Associate Professors :

- I. L. Winter, *Public Speaking*.

### Assistant Professors :

- H. W. Foote, *Preaching and Parish Administration*.
- J. Ford, *Social Ethics*.
- R. F. Foerster, *Social Ethics*.

### Andover Professors :

- E. Y. Hincks, *Biblical Theology*.
- J. W. Platner, *Ecclesiastical History*.

# Andover Professors—Continued :

- D. Evans, *Systematic Theology*.
- W. R. Arnold, *Hebrew Language and Literature*.
- 5 Assistants.

## THE FACULTY OF THE EPISCOPAL THEOLOGICAL SCHOOL.

### Professors :

- M. Kellner, *Literature and Interpretation of the Old Testament*.
- E. S. Drown, *Systematic Divinity*.
- H. B. Washburn, *Ecclesiastical History*.
- W. H. P. Hatch, *Literature and Interpretation of the New Testament*.

### Assistant Professors :

- J. E. Addison, *Religion and Missions*.
- N. B. Nash, *New Testament*.

## THE FACULTY OF ARCHITECTURE.

### Professor :

- J. Sturgis Pray, *Landscape Architecture*.

### Associate Professors :

- J. S. Humphreys, *Architectural Design*.
- C. W. Killam, *Architectural Construction*.

### Assistant Professor :

- H. V. Hubbard, *Landscape Architecture*.
- 3 Instructors.

## THE FACULTY OF LAW.

### Professors :

- R. Pound, *General Jurisprudence*.
- E. Wambaugh, *Law*.
- J. H. Beale, *Law*.
- S. Williston, *Law*.
- H. M. Bates, *Law*.
- E. H. Warren, *Law*.
- Joseph Warren, *Law*.
- F. Frankfurter, *Law*.
- A. W. Scott, *Law*.
- C. Chaffee, *Law*.

### Assistant Professor :

- M. O. Hudson, *Law*.
- F. B. Sayre, *Law*.

## THE FACULTY OF BUSINESS ADMINISTRATION.

### Professors :

- W. B. Bonham, *Business Economics*.
- W. M. Cole, *Accounting*.
- O. M. W. Sprague, *Banking and Finance*.
- W. J. Cunningham, *Transportation*.
- L. F. Schaub, *Commercial Law*.
- G. B. Roorbach, *Foreign Trade*.

### Assistant Professors :

- R. T. Fisher, *Forestry*.
- J. M. Gries, *Lumbering*.
- M. T. Copeland, *Marketing*.
- 2 Instructors and 1 Assistant.



**Post-Graduate Courses.**—Post-graduate instruction is given in Arts and Sciences, Architecture, Landscape Architecture, Engineering, Business Administration, Divinity, Law, Medicine, Dentistry, and in the Bussey Institution.

**Institutes, Museums, Learned Societies, etc.**

Astronomical Observatory. *Director*: (Vacant).

Blue Hill Meteorological Observatory. *Director*: A. McAdie.

Botanic Garden. *Director*: Oakes Ames.

Gray Herbarium. *Curator*: B. L. Robinson.

Peabody Museum of American Archeology and Ethnology. *Director*: C. C. Willoughby.

The University Museum. *Director*: S. Henshaw.

Museum of Comparative Zoology. *Director*: S. Henshaw.

Peabody Museum. *Director*: C. C. Willoughby.

Semitic Museum. *Curator*: D. G. Lyon.

William Hayes Fogg Museum of Art. *Director*: E. W. Forbes.

Germanic Museum. *Curator (Hon.)*: K. Francke.

Social Museum. *Curator*: J. Ford.

Harvard University Press. *Director*: C. C. Lane.

The University Library contains over 1,856,900 volumes. *Director*: A. C. Coolidge.

The main collection and 43 special libraries are housed in the Harry Elkins Widener Memorial Library building.

There are also 11 departmental libraries.

**AFFILIATED INSTITUTIONS.**

Radcliffe College (for women), Cambridge, Mass.

*President*.—Le Baron R. Briggs, A.M., LL.D., Litt.D.

*Dean*.—Bertha May Moody, A.M.

*Secretary*.—Harriett D. Buckingham, A.M.

**PROFESSORS ON THE ACADEMIC BOARD.**

**FACULTY OF ARTS.**

W. S. Ferguson, *Ancient History*.

C. H. Grandgent, *Romance Languages*.

G. H. Kittredge, *English Literature*.

H. W. Smyth, *Greek Literature*.

H. S. White, *German*.

**FACULTY OF SCIENCE.**

G. P. Baxter, *Chemistry*.

E. H. Hall, *Physics*.

E. L. Mark, *Anatomy*.

**THE EPISCOPAL THEOLOGICAL SCHOOL, Cambridge, Mass. (1867.)**

*Terms*: Two, beginning in September and February. *Students*: 28.

**Degrees conferred.**—B.D., S.T.M., and D.D.

The hoods conform in pattern to the American intercollegiate system of academic costume. They are lined with white silk and have a chevron of scarlet.

**PROFESSORS.**

**FACULTY OF DIVINITY.**

**Professors:**

Rev. Max Kellner, *Literature and Interpretation of the Old Testament*.

Rev. E. S. Drown, *Systematic Divinity*.

Rev. H. B. Washburn, *Ecclesiastical History*.

**Assistant Professors:**

Rev. W. H. P. Hatch, *Literature and Interpretation of the New Testament*.

Rev. J. T. Addison, *History of Religions and Missions*.

Rev. N. B. Nash, *New Testament*.

R. G. Appel, *Church Music and Public Speaking*.

**Post-Graduate Courses.**—Instruction is provided for students who hold the degree of B.D., and who desire to become candidates for the degree of S.T.M. The requirements for the latter degree are:

One year of residence.

The completion with credit of four full courses of an advanced character, and

The writing of a satisfactory thesis.

Two of the courses may be taken in Harvard University.

**Library.**—The Wright Memorial Library. *Librarian*: Miss E. D. Fuller.

**ANDOVER THEOLOGICAL SEMINARY**, Cambridge, Mass. (1807.)

Affiliated with Harvard University.

*Terms*: Two per year—September to June.*Students*: 20 *Budget*: \$45,000.*President*.—J. W. Platner.**Degrees conferred**.—Bachelor of Sacred Theology.

## PROFESSORS.

J. W. Platner, *Church History*.D. Evans, *Christian Theology*.W. R. Arnold, *Hebrew*.

W. L. Sperry (Associate Professor),

*Practical Theology*.

2 Lecturers.

**Library**.—The Andover-Harvard Theological Library, about 110,000 volumes and 60,000 pamphlets. *Librarian*: Owen H. Gates.**CAPE TOWN (S. Africa).****UNIVERSITY OF CAPE TOWN**, Cape Town, South Africa.

Founded as the South African College, 1829.

Incorporated as the University of Cape Town, 1918.

The work of the University is at present carried on in the buildings of the former South African College and in those occupied until 1918 by the old University of the Cape of Good Hope. There are also two large residences for men students and one for women students.

Under its Act of Incorporation the University is to be transferred to the Groote Schuur Estate in the near vicinity of Cape Town, and the necessary buildings and residences are shortly to be erected there, the nucleus of the building fund consisting of the munificent donation amounting to £500,000 by the late Sir Julius Wernher, Bart., and Otto and Alfred Beit.

*Terms*: March to May (8 weeks); May to July (9 weeks); August to October (9 weeks); October to December (10 weeks).

*Students*: 805.*Budget*: (1919) Revenue:

Government Grants	..	..	..	£31,866
Other sources	..	..	..	40,790
Total	..	..	..	£72,656

Expenditure, £74,825.

## OFFICIALS.

*Visitor*.—His Excellency the Governor-General, P.C., G.C.M.G.*Chancellor*.—H.R.H. Edward, Prince of Wales, K.G., M.C.*Vice-Chancellor*.—Principal J. C. Beattie, D.Sc., F.R.S.E.*Registrar*.—W. G. R. Murray, M.A.*President of Convocation*.—Advocate R. W. Close, K.C., B.A., LL.B., M.L.A.

**Degrees conferred**.—B.A., M.A., D.Litt., D.Phil., B.Sc., M.Sc., D.Sc., LL.B., LL.M., LL.D., M.B., Ch.B., Ch.M., M.D. (Degrees are not yet given in the Faculty of Medicine.)

*Hoods*:

Bachelors: a black stuff or silk gown, and black silk hood lined with white silk, and edged with silk of the colour distinctive of the degree.

Masters: a black stuff or silk gown, and black silk hood lined with silk of the colour distinctive of the degree and edged with white silk.

Doctors: a scarlet cloth gown, faced with silk of the colour distinctive of the degree.

*Distinctive colours*: Arts, blue; Engineering, green; Law, old gold; Medicine, red.

# PROFESSORS.

W. H. Bell, *Music*.  
 Rev. A. P. Bender, *Hebrew*.  
 J. Clark, *English*.  
 P. J. du Toit, *Dutch*.  
 R. Leslie, *Economics*.  
 W. S. Logeman, *German*.  
 R. D. Nauta, *French*.  
 H. A. Reyburn, *Philosophy*.  
 W. Ritchie, *Latin*.  
 E. A. Walker, *History*.  
 A. Ogg, *Physics*.  
 A. Young, *Geology*.  
 A. Brown, *Applied Mathematics*.  
 R. H. Compton, *Botany*.  
 L. Crawford, *Pure Mathematics*.  
 J. D. F. Gilchrist, *Zoology*.

T. P. Kent, *Pure Mathematics*.  
 E. Newbery, *Physical Chemistry*.  
 D. Thoday, *Botany*.  
 H. Tietz, *Organic Chemistry*.  
 R. R. B. Howes, *Law*.  
 F. Clarke, *Education*.  
 J. A. Gunn, *Pharmacology*.  
 M. R. Drennan, *Anatomy*.  
 W. A. Jolly, *Physiology*.  
 T. J. Mackie, *Bacteriology*.  
 E. C. Crichton, *Obstetrics*.  
 H. Bohle, *Electrotechnics*.  
 A. E. Snape, *Civil Engineering*.  
 D. McMillan, *Mechanical Engineering*.  
 50 Lecturers and Assistants.

The following chairs are at present vacant: *Greek, Inorganic Chemistry, Medicine, Surgery, Pathology*.

**Post-Graduate Courses.**—Courses are provided for the degrees of Master and Doctor in the Faculties of Arts, Science, Law, and Engineering.

**Museums.**—Bolus Herbarium and Library, bequeathed to the University in 1911 by the late Dr. Harry Bolus, F.L.S. *Curator*: Mrs. F. Bolus, B.A. Pathological Museum presented by the Government.

## Library.

University Library, about 20,000 volumes.  
*Librarian (Hon.)*: Prof. W. S. Logeman, L.H.C.  
*Librarian's Assistant*: S. L. Harvey.

# SOUTH AFRICAN MUSEUM, Cape Town.

The Museum was incorporated by Act of Parliament in 1857. It includes an Annexe—the Koopmans de Wet House—which is devoted to the display of articles in use by Colonists between the time of the first occupation of the Cape by the Dutch and the year 1830. The Museum itself is a Natural History Museum, and issues a publication, *Annals of the South African Museum*, which is devoted to original papers on Zoology, Botany, Geology, Paleontology, Anthropology, and Early Colonial History, and appears in parts. Eleven complete volumes have been issued, and six others are nearly completed.

## OFFICIALS.

*Director*.—L. Peringuey, D.Sc., F.E.S., F.Z.S.  
*Assistant Director, in charge of Paleontological Collections*.—S. H. Haughton, B.A., F.G.S.  
*Hon. Curator of Geological Collections*.—A. L. Hall, B.A., F.G.S.  
*Hon. Curator of Koopman de Wet House*.—W. F. Purcell, Ph.D.  
*Assistant in charge of Marine Zoological Collections*.—K. H. Barnard, M.A.  
*Assistant in Charge of Land Invertebrates*.—R. W. E. Tucker, B.A.  
*Clerk and Librarian*.—R. M. Lightfoot, F.E.S.

**ROYAL OBSERVATORY, Cape of Good Hope, Cape Town, S. Africa. (1820.)**

*Budget*: £9,885.

*H.M. Astronomer*.—S. S. Hough, M.A., F.R.S.

*Chief Assistant*.—J. K. E. Halm.

*Secretary*.—A. Pilling.

4 Assistants and 7 junior Assistants.

## LEARNED SOCIETIES, ETC.

**The Van Riebeeck Society** for the publication of South African Historical Documents. (1918.)

*President*.—Rt. Hon. J. X. Merriman, M.L.A., P.C., LL.D.

*Secretary and Treasurer*.—A. C. G. Lloyd, B.A.

Publishes Annual Volume.

**CARDIFF ("PRIFYSGOL CYMRU").****THE UNIVERSITY OF WALES, Cardiff, Wales. (1893.)***Students (1918-19):* About 1,600.**OFFICIALS.***Chancellor.*—H.M. The King.*Deputy Chancellors.*—

The Right Hon. The Lord Keynon, K.C.V.O.

Major David Davies, M.A., M.P., LL.D.

*Vice-Chancellor.*—Principal Sir H. R. Reichel, M.A., LL.D.*Warden of the Guild of Graduates.*—Prof. Sir J. Morris Jones, M.A.*Treasurer.*—T. Tolin, M.A., J.P.*Dean of Divinity.*—Principal O. Pyrs, M.A.*Registrar.*—J. M. Angus, M.A.**Degrees conferred.**—B.A., M.A., D.Litt., D.Phil., B.Sc., M.Sc., D.Sc., B.Mus., M.Mus., D.Mus., LL.B., LL.M., LL.D., B.D., D.D., M.B., B.Ch., M.Ch., M.D.

Bachelors' Hoods are of the Oxford form; Masters' and Doctors' Hoods are of the Cambridge form. Bachelors' Hoods are made of black stuff or silk, except in the Faculty of Music in which the Hoods are made of dark blue silk. Masters' Hoods are made of black silk, and Doctors' Hoods of scarlet cloth. Bachelors' Hoods are bordered, and Masters' and Doctors' Hoods lined with silk of the colours proper to their respective Faculties.

The colours proper to the respective Faculties are:

The Faculty of Arts: Mazarin blue shot with green.

The Faculty of Science: Bronze colour (yellow shot with black).

The Faculty of Music: Pear colour (a shot silk of three hues).

The Faculty of Law: Red shot with purple.

The Faculty of Theology: Mazarin blue shot with red.

The Faculty of Medicine: Green shot with black, edged with white.

**Professors.**—The University has no teaching staff. The teaching is done by the Staffs of the Constituent Colleges.**Libraries.**—The University has no Library. The Colleges have their Libraries separately.**AFFILIATED INSTITUTIONS.**

The University is a federal University made up of the Constituent (University) Colleges at Aberystwyth, Bangor and Cardiff. The addition of another Constituent College at Swansea is under consideration. In the Faculty of Theology, which the Constituent Colleges are precluded by their Charters from teaching, the following Theological Colleges are Associated Colleges: The Theological College, Aberystwyth; The Theological College, Bala; The Memorial College, Brecon; The Joint School of Theological Studies, Bangor; The Presbyterian College, Carmarthen; The Baptist College, Cardiff.

**THE UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE.**

Cathays Park and Newport Road, Cardiff. (1884.)

*Terms:* Three per year.*Students (1919):* 835.*Budget:*

Income .. .. £28,786 2s. 11d.

Expenditure .. .. £32,561 10s. 8d.

**OFFICIALS.***Principal.*—A. H. Trow, D.Sc., F.L.S.*President.*—The Right Hon. Lord Glanely.*Vice-Presidents.*—

The Right Hon. Lord Aberdare.

The Right Hon. Lord Pontypridd.

The Right Hon. The Earl of Plymouth.

*Treasurer.*—Alderman Herbert M. Thompson, M.A.*Registrar.*—D. J. A. Brown.**Degrees and Hoods.**—The Degrees and Hoods of the University of Wales.



# PROFESSORS.

F. Bacon, <i>Engineering.</i>	H. Littledale, <i>English Language and Literature.</i>
Paul Barbier, <i>French.</i>	G. Norwood, <i>Greek.</i>
H. Bruce, <i>History.</i>	W. N. Parker, <i>Zoology.</i>
A. H. Cox, <i>Geology.</i>	W. Phillips, <i>Education.</i>
E. Emrys - Roberts, <i>Pathology and Bacteriology.</i>	R. H. Pinkerton, <i>Pure and Applied Mathematics.</i>
David Evans, <i>Music.</i>	A. A. Read, <i>Metallurgy.</i>
B. Foxley (Miss), <i>Elementary Training Department (Women).</i>	W. J. Roberts, <i>Economics and Political Science.</i>
W. J. Gruffydd, <i>Celtic.</i>	A. L. Selby, <i>Physics.</i>
J. B. Baycraft, <i>Physiology.</i>	C. M. Thompson, <i>Chemistry.</i>
D. Hepburn, <i>Anatomy.</i>	R. C. McLean, <i>Botany.</i>
H. J. W. Hetherington, <i>Logic and Philosophy.</i>	G. A. T. Davies, <i>Latin.</i>

33 Lecturers.

**Post-Graduate Courses.**—Provision is made for Research in practically all departments, and aid is specially encouraged by means of College Scholarships and University Post-Graduate Studentships and Fellowships.

*Librarian* : S. O. Moffet, M.A. *Assistant Librarian* : Miss G. Hughes.

# AFFILIATED INSTITUTIONS.

There are Joint Diploma Courses with:

The Technical College, Cardiff, and

The South Wales and Monmouthshire School of Mines, Treforest.

**THE CARDIFF MEDICAL SOCIETY**, Y.M.C.A. Buildings, Queen Street, Cardiff.

*President.*—W. Sheen.

*Vice-Presidents.*—W. Mitchell Stevens, F. P. S. Cresswell.

*Treasurer.*—D. R. Paterson.

*Librarian.*—Herbert T. Evans.

*Secretaries.*—Eric Evans, J. O. D. Wade.

**CASE SCHOOL OF APPLIED SCIENCE.** See CLEVELAND.

# CAWNPORE.

**CHRIST CHURCH COLLEGE**, Cawnpore.

Affiliated to the University of Allahabad.

*Terms* : July to April.

*Students* : 150.

# OFFICIALS.

*Principal.*—Rev. M. S. Douglas, M.A.

*Vice-Principal.*—Rev. E. W. Ormerod, M.A.

8 Lecturers.

**Post-Graduate Courses** in Philosophy for the M.A. degree.

**Library.**—The College Library is under the charge of Mr. S. C. Chatterji.

# CHAPEL HILL (N. Carolina).

**THE UNIVERSITY OF NORTH CAROLINA**, Chapel Hill, North Carolina. (1789.)

*Terms* : Three terms of 11 weeks each, and one of 6 weeks.

*Students* : 1,600.

*Budget* : \$350,000.

# OFFICIALS.

*President.*—Harry W. Chase, Ph.D.

*Registrar.*—Thomas J. Wilson, jr., Ph.D.

**Degrees conferred.**—A.B., S.B., A.B., LL.B., S.B. in Med., Ph.G., Ph.C., P.D. A.M., S.M., Ph.D. (All these are degrees in course). Honorary.—LL.D., D.D., L.H.D.

## PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

W. D. Toy, *German*.  
H. H. Williams, *Philosophy*.  
G. Howe, *Latin*.  
C. L. Raper, *Economics*.  
J. G. de R. Hamilton, *History*.  
H. McG. Wagstaff, *History*.  
W. M. Dey, *Romance Languages*.  
E. Greenlaw, *English*.  
E. C. Branson, *Rural Economics and Sociology*.  
F. H. Koch, *Dramatic Literature*.  
D. De Witt Carroll, *Economics*.  
W. S. Bernard, *Greek*.  
G. McF. McKie, *Public Speaking*.  
J. M. Booker, *English*.  
O. Towles, *Romance Languages*.  
K. J. Brown, *German*.  
N. Foerster, *English*.  
J. H. Hanford, *English*.  
W. W. Pierson, *History*.  
S. E. Leavitt, *Romance Languages*.  
N. M. Paull, *Drawing*.  
G. K. G. Henry, *Latin*.  
H. McC. Dargan, *English*.  
C. A. Hibbard, *English*.  
G. A. Harrer, *Latin*.  
H. StaaB, *Romance Languages*.  
F. P. Graham, *History*.  
R. B. Cowin, *Accounting*.  
P. J. Weaver, *Music*.

## SCHOOL OF SCIENCE.

F. P. Venable, *Chemistry*.  
W. Cain, *Mathematics*.  
H. Van P. Wilson, *Zoology*.  
C. Cobb, *Geology and Mineralogy*.  
J. H. Pratt, *Economic Geology*.  
W. C. Coker, *Botany*.  
A. Henderson, *Pure Mathematics*.

## School of Science—Continued:

A. H. Patterson, *Physics*.  
J. F. Dashiell, *Psychology*.  
A. S. Wheeler, *Organic Chemistry*.  
J. M. Bell, *Physical Chemistry*.  
W. F. Prouty, *Geology*.  
J. T. Dobbins, *Chemistry*.  
J. W. Lasley, *Mathematics*.  
W. W. Rankin, *Mathematics*.  
A. W. Hobbs, *Mathematics*.

## SCHOOL OF APPLIED SCIENCE.

(Vacant), *Civil Engineering*.  
P. H. Daggett, *Electrical Engineering*.  
J. H. Mustard, *Electrical Engineering*.  
J. E. Lear, *Engineering Science*.  
T. F. Hickerson, *Civil Engineering*.  
T. Saville, *Sanitary Engineering*.

## SCHOOLS OF MEDICINE AND PHARMACY.

C. S. Mangum, *Anatomy*.  
E. V. Howell, *Pharmacy*.  
I. H. Manning, *Physiology*.  
W. De B. MacNider, *Pharmacology*.  
J. B. Bullitt, *Histology and Pathology*.  
B. R. Lawson, *Anatomy*.  
J. G. Beard, *Pharmacy*.

## SCHOOL OF LAW.

P. H. Winston, *Law*.  
L. P. McGehee, *Law*.  
A. C. McIntosh, *Law*.  
O. O. Eiford, *Law*.

## SCHOOL OF EDUCATION.

M. C. S. Noble, *Pedagogy*.  
N. W. Walker, *Secondary Education*.  
L. A. Williams, *School Administration*.  
E. W. Knight, *Rural Education*.  
17 Instructors.

**Post-Graduate Courses** leading to the degrees of A.M., S.M., Ph.D., Ph.C., and P.D. are offered.

## Institutes and Learned Societies.—

The Elisha Mitchell Scientific Society.  
The North Carolina Historical Society.  
The Philological Club.  
American Institute of Electrical Engineers (The University of North Carolina Branch).

**Library.**—The University Library. *Librarian*: L. R. Wilson, Ph.D.

## CHARLOTTESVILLE (Virginia).

UNIVERSITY OF VIRGINIA. No particulars received.

## CHARTERS TOWERS (Queensland).

**CHARTERS TOWERS SCHOOL OF MINES**, Charters Towers, Queensland. (1901.)

The School is a sub-department of the Department of Mines, and is entirely a Government institution; the Director being responsible to the Under-Secretary for Mines (resident in Brisbane).

A public Assay Laboratory is connected with the School. In this assays for prospectors are made free of charge.

*Terms* : Three per year. *Students* : Varies between 40 and 120.

*Budget* : £3,000 to £4,000 per annum supplied by the Department of Mines of Queensland.

### OFFICIALS.

*Director*.—H. I. McGilhiray, M.A.

*Secretary*.—J. F. Horrigan.

**Degrees conferred**.—The Diplomas in Mining Engineering and Metallurgical Engineering (Associate Courses), Metallurgical Chemistry and Assaying, and Mining Surveying.

### LECTURERS.

H. I. McGilhiray, *Geology, Mineralogy, and Mining Geology.*

J. D. Cunningham, *Mining, Ore Dressing, Surveying, and Mechanical Drawing.*

J. A. Hughes, *Chemistry, Metallurgy, and Assaying.*

A. R. Wright, *Physics, Mechanics, Mechanical and Electrical Engineering.*

1 Assistant Lecturer, 1 Demonstrator, 1 Assayer.

**Post-Graduate Course**.—A course in steel analysis is taken as required.

**Library**.—The School Library also serves as a reference library for the City of Charters Towers. *Librarian* : J. R. Horrigan.

## CHICAGO (Illinois).

**THE UNIVERSITY OF CHICAGO**, Chicago, Illinois. (1891.)

*Terms* : Three per year.

*Students* : 6,248 (1917-18.)

*Budget* : \$2,100,912. 16. (1917-18.)

### OFFICIALS.

*President*.—Harry Pratt Judson.

*Recorder and Examiner*.—Walter A. Payne.

*Secretary to the President*.—David A. Robertson.

*Secretary of the Board Trustees*.—J. Spencer Dickerson.

*Counsel and Business Manager*.—Wallace Heckman.

*Auditor*.—Trevor Arnett.

*Director of the University Libraries*.—Ernest DeWitt Burton.

*Dean of the Faculties of Arts, Literature, and Science*.—J. Rowland Angell.

*Dean of the Divinity School*.—Shailer Mathews.

*Dean of the Law School*.—J. Parker Hall.

*Dean of the Medical Students*.—J. Milton Dodson.

*Dean of the Graduate School of Arts, Literature, and Science*.—Albion W. Small.

*Dean of the Junior Colleges*.—Robert Morss Lovett.

*Director of School of Education*.—Chas. H. Judd.

*Dean of School of Commerce and Administration*.—Leon C. Marshall.

*Dean of Ogden Graduate School of Science*.—Rollin D. Salisbury.

**Degrees conferred**.—A.B., Ph.B., S.B., A.B. in Education, Ph.B. in Education, S.B. in Education, LL.B., J.D., B.D., M.D., A.M., S.M., Ph.D.

*Hoods* : Black with maroon lining, given with Ph.D. degree only.

## PROFESSORS.

## FACULTY OF ARTS, LITERATURE AND, SCIENCE.

## Professors :

- J. R. Angell, *Psychology*.  
 E. E. Barnard, *Astronomy*.  
 H. H. Barrows, *Geography*.  
 C. R. Baskerville, *English*.  
 E. S. Bastin, *Economic Geology*.  
 C. H. Beeson, *Latin*.  
 G. A. Bliss, *Mathematics*.  
 R. J. Bonner, *Greek*.  
 J. H. Breasted, *Egyptology and Oriental History*.  
 C. D. Buck, *Comparative Philology*.  
 T. C. Chamberlain, *Geology and Paleontology*.  
 C. M. Child, *Zoology*.  
 A. Coleman, *French*.  
 J. M. Coulter, *Botany*.  
 H. C. Cowles, *Plant Ecology*.  
 S. W. Cutting, *Germanic Languages and Literatures*.  
 E. P. Dargan, *French Literature*.  
 L. E. Dickson, *Mathematics*.  
 W. E. Dodd, *American History*.  
 Ellsworth Faris, *Sociology*.  
 J. A. Field, *Political Economy*.  
 E. B. Frost, *Astrophysics*.  
 H. G. Gale, *Physics*.  
 J. P. Goode, *Geography*.  
 G. E. Hale, *Astrophysics*.  
 W. D. Harkins, *Chemistry*.  
 R. Herrick, *English*.  
 T. A. Jenkins, *History of the French Language*.  
 A. Jonannsen, *Petrology*.  
 G. J. Laing, *Latin*.  
 F. R. Lillie, *Zoology*.  
 J. W. Linn, *English*.  
 R. M. Lovett, *English*.  
 J. M. Manly, *English*.  
 H. E. Marr (Colonel), *Military Science and Tactics*.  
 G. H. Mead, *Philosophy*.  
 C. E. Merriam, *Political Science*.  
 E. T. Merrill, *Latin*.  
 A. A. Michelson, *Physics*.  
 F. J. Miller, *Latin*.  
 R. A. Millikan, *Physics*.  
 H. A. Millis, *Political Economy*.  
 A. W. Moore, *Philosophy*.  
 E. H. Moore, *Mathematics*.  
 F. R. Moulton, *Astronomy*. [omy.  
 G. W. Myers, *Mathematics and Astron-*  
 W. D. MacClintock, *English Literature*.  
 A. C. McLaughlin, *History*.  
 H. H. Newman, *Zoology and Embryology*.  
 W. A. Nitze, *Romance Languages and Literature*.  
 G. T. Northup, *Spanish Literature*.

## Associate Professors :

- K. Pietsch, *Romance Philology*.  
 H. W. Prescott, *Classical Philology*.  
 I. M. Price, *Semitic Languages and Literature*.  
 O. Read, *History*.  
 M. Reynolds (Miss), *English Literature*.  
 R. D. Salisbury, *Geographic Geology*.  
 F. Schevill, *Modern History*.  
 M. Schutze, *German Literature*.  
 P. Shorey, *Greek*.  
 H. E. Slaught, *Mathematics*.  
 A. W. Small, *Sociology*.  
 A. A. Stagg, *Physical Culture*.  
 J. Stieglitz, *Chemistry*.  
 M. Talbot (Miss), *Household Administration*.  
 B. F. Terry, *English History*.  
 J. W. Thompson, *Medieval History*.  
 A. H. Tolman, *English Literature*.  
 J. H. Tufts, *Philosophy*.  
 S. Weller, *Paleontologic Geology*.  
 E. J. Wilczynski, *Mathematics*.  
 E. H. Wilkins, *Romance Languages*.  
 W. C. Wilkinson, *Poetry and Criticism*.  
 F. A. Wood, *Germanic Philology*.  
 C. W. Wright, *Political Economy*.  
 T. Iyenaga, *Political Science*.  
 L. Taft, *History of Art*.  
 P. S. Allen, *German Literature*.  
 E. S. Ames, *Philosophy*.  
 S. E. W. Bedford, *Sociology*.  
 K. Blunt (Miss), *Food Chemistry, Home Economics*.  
 P. H. Boynton, *English*.  
 H. A. Carr, *Psychology*.  
 C. F. Castle, *Greek*.  
 R. T. Chamberlin, *Geology*.  
 J. M. Clark, *Political Economy*.  
 S. H. Clark, *Public Speaking*.  
 W. E. Clark, *Sanskrit and Indo-European Comparative Philology*.  
 W. Crocker, *Plant Physiology*.  
 T. P. Cross, *English and Celtic*.  
 H. C. E. David, *French Literature*.  
 W. F. Dodd, *Political Science*.  
 G. Dudley (Miss), *Physical Culture*.  
 E. F. Flint (Mrs.), *English*.  
 C. Goettsch, *Germanic Philology*.  
 G. C. Howland, *History of Literature*.  
 M. W. Jernegan, *History*.  
 W. J. G. Land, *Botany*.  
 K. Laves, *Astronomy*.  
 A. C. Lunn, *Applied Mathematics*.  
 W. D. MacMillan, *Astronomy*.  
 G. L. Marsh, *English*.  
 H. G. Moulton, *Political Economy*.  
 J. A. Parkhurst, *Practical Astronomy*.  
 D. B. Reed, *Physical Culture*.  
 D. A. Robertson, *English*.  
 H. I. Schlesinger, *Chemistry*.



**Associate Professors—Continued :**

- F. Starr, *Anthropology*.  
E. Wallace (Miss), *French Literature*.  
J. W. A. Young, *Pedagogy of Mathematics*.

**Assistant Professors :**

- R. Altrocchi, *Romance Languages*.  
S. B. Barrett, *Astrophysics*.  
G. Van Biesbroeck, *Astronomy*.  
S. P. Breckinridge (Miss), *Social Economy*.  
J. H. Bretz, *Geology*.  
E. W. Burgess, *Sociology*.  
C. C. Colby, *Geography*.  
J. W. E. Glatfield, *Chemistry*.  
C. N. Gould, *German and Scandinavian Literature*.  
H. E. Gronow, *German*.  
S. N. Harper, *Russian Language and Institutions*.  
J. R. Hulbert, *English*.  
C. F. Huth, *History*.  
W. D. Jones, *Geography*.  
L. I. Knight, *Botany*.  
T. A. Knott, *English*.  
J. J. Meyer, *German*.  
T. L. Neff, *French*.  
B. C. Nelson, *Public Speaking*.  
A. C. Noe, *German Literature*.  
C. E. Parmenter, *Romance*.  
E. M. Terry (Miss), *Chemistry*.  
G. L. Wendt, *Chemistry*.  
N. W. Barnes, *Political Economy*.  
W. J. Crozier, *Zoology*.  
A. J. Dempster, *Physics*.  
G. D. Fuller, *Botany*.  
Carl H. Grabo, *English*.  
H. B. Lemon, *Physics*.  
J. C. Lewis (Major), *Military Science and Tactics*.  
I. J. Lingle, *Physiology*.  
B. H. Nicolet, *Chemistry*.  
F. L. Schoell, *Romance*.  
A. P. Scott, *History*.  
G. W. Sherburn, *English*.  
W. H. Spencer, *Business Law*.  
D. H. Stevens, *English*.  
G. Van Biesbroeck, *Practical Astronomy*.  
P. T. Vance (Captain), *Military Science and Tactics*.  
J. Viner, *Political Economy*.  
R. T. Wiltbank, *Psychology*.

**SCHOOL OF MEDICINE.**

**Professors :**

- R. R. Bensley, *Anatomy*.  
F. Billings, *Medicine*.  
A. J. Carlson, *Physiology*.  
B. C. H. Harvey, *Anatomy*.  
L. Hektoen, *Pathology*.  
C. J. Herrick, *Neurology*.  
E. O. Jordan, *Bacteriology*.

**Professors—Continued :**

- P. Kyes, *Preventive Medicine*.  
D. D. Lewis, *Surgery*.  
H. G. Wells, *Pathology*.  
A. D. Bevan, *Surgery*.  
J. M. Dodson, *Medicine*.  
W. S. Haines, *Toxicology*.

**Associate Professors :**

- F. C. Koch, *Physiological Chemistry*.  
A. B. Luckhardt, *Physiology*.

**Assistant Professors :**

- G. W. Bartelmez, *Anatomy*.  
E. Clark, *Anatomy*.  
L. M. De Witt (Mrs.), *Pathology*.  
K. K. Koessler, *Experimental Medicine*.  
J. F. Norton, *Bacteriology*.  
C. H. Swift, *Anatomy*.  
S. Tashiro, *Physiological Chemistry*.  
A. L. Tatum, *Pharmacology and Physiology*.

**DIVINITY SCHOOL.**

**Professors :**

- E. D. Burton, *New Testament and Early Christian Literature*.  
S. J. Case, *Early Church History and New Testament Interpretation*.  
E. J. Goodspeed, *Biblical and Patristic Greek*.  
F. W. Gunsaulus, *Practical Theology*.  
E. G. Hirsch, *Rabbinical Literature and Philosophy*.  
S. Mathews, *Historical and Comparative Theology*.  
G. B. Smith, *Christian Theology*.  
J. M. P. Smith, *Old Testament Language and Literature*.  
T. G. Soares, *Homiletics and Religious Education*.  
C. W. Votaw, *Biblical Greek*.  
H. L. Willett, *Semitic Languages and Literatures*.

**Associate Professors :**

- J. M. Artman, *Religious Education*.  
D. D. Luckenbill, *Oriental Languages and Literatures*.

**Assistant Professors :**

- F. M. Blanchard, *Public Speaking*.  
P. G. Mode, *Church History*.  
F. Merrifield, *New Testament History and Interpretation*.  
M. Sprengling, *Semitic Languages and Literatures*.

**SCHOOL OF LAW.**

**Professors :**

- H. P. Judson, *International Law and Diplomacy*.  
H. A. Bigelow, *Law*.  
E. Freund, *Jurisprudence and Public Law*.  
J. P. Hall, *Law*.

**Professors—Continued :**

E. W. Hinton, *Law*.  
J. W. Mack, *Law*.  
F. R. Mechem, *Law*.  
H. Oliphant, *Law*.  
F. C. Woodward, *Law*.

**SCHOOL OF EDUCATION.**
**Professors :**

R. M. Tryon, *Teaching of History*.  
N. Butler, *Education*.  
C. H. Judd, *Education*.  
H. C. Morrison, *School Administration*.  
S. C. Parker, *Education*.  
W. Sargent, *Art Education*.

**Associate Professors :**

Z. Baber (Miss), *Geography and Geology*.  
E. R. Downing, *Natural Science*.  
F. N. Freeman, *Educational Psychology*.  
W. S. Gray, *Education*.  
R. L. Lyman, *Teaching of English*.  
H. O. Rugg, *Education*.  
J. F. Bobbitt, *School Administration*.

**Assistant Professors :**

F. S. Breed, *Education*.  
C. C. Colburn (Miss), *Institution Economics*.  
A. Temple (Miss), *Kindergarten Education*.  
W. G. Whitford, *Æsthetic and Industrial Education*.  
E. T. Filby, *Industrial Education*.  
M. F. McAuley (Miss), *Institution Economics*.  
Lydia J. Roberts (Miss), *Home Economics*.  
M. B. Trilling (Miss), *Home Economics*.

**SCHOOL OF COMMERCE AND ADMINISTRATION.**
**Professors :**

L. C. Marshall, *Political Economy*.  
G. E. Frazer, *Accounting*.

**Assistant Professors :**

N. W. Barnes, *Commercial Organization*.  
C. S. Duncan, *Commercial Organization*.

**Post-Graduate Courses.**—The Graduate Schools of Arts, Literature, and Science afford courses of instruction leading to the degree of Master of Arts or of Science, and to the Degree of Doctor of Philosophy.

In the Graduate School of Arts and Literature are the advanced courses offered by the Departments of Philosophy, Psychology, Education, Political Economy, Commerce and Administration, Political Science, History, Sociology and Anthropology, Household Administration, the Oriental Languages and Literatures, New Testament and Early Christian Literature, Comparative Philology, the Greek Language and Literature, the Latin Language and Literature, the Romance Languages and Literatures, the Germanic Languages and Literatures, English and General Literature.

In the Ogden Graduate School of Science are the advanced courses offered by the Departments of Mathematics, Astronomy and Astrophysics, Physics, Chemistry, Geology and Paleontology, Geography, Zoology, Anatomy, Physiology, Physiological Chemistry and Pharmacology, Botany, Pathology, and Hygiene and Bacteriology.

**Museums.—**

The Walker and Julius Rosenwald Museums (Geology, Mineralogy, Anthropology and Paleontology).

The Haskell Oriental Museum (Biblical, Comparative Religion, Assyrian and Egyptian collections). *Director* : J. H. Breasted, Ph.D.

**Libraries.—**

William Rainey Harper Memorial Library Building.

The General Library.

Departmental and Professional Libraries.

The Libraries contain 545,890 books and about 200,000 pamphlets. *Director* : E. De Witt Burton. *Associate Director* : James C. M. Hanson.

**NORTH WESTERN UNIVERSITY.** No particulars received.

**RUSH MEDICAL COLLEGE.** No particulars received.

**COLLEGE OF PHYSICIANS AND SURGEONS.** See URBANA, UNIVERSITY OF (ILLINOIS).

**CENTRAL STATES COLLEGE OF PHARMACY, Chicago, Illinois. (1908.)**

*Terms:* Three per year.

*Students:* 100.

**OFFICIALS.**

*President.*—George Louis Secord.

*Dean.*—Roland Hodge Phillips.

*Secretary.*—Walther F. von Zelinski.

*Registrar.*—Grace Ward Secord.

*President of Board of Trustees.*—J. De Witte Leek.

**PROFESSORS.**

G. L. Secord.

R. H. Phillips.

W. F. von Zelinski.

B. H. Rouse.

A. W. Wheeler.

Thomas A. Carter.

G. Ward Secord (Mrs.).

H. A. Caperton.

J. F. Forbes.

4 Special Lecturers.

College Library of about 400 volumes.

**ARMOUR INSTITUTE OF TECHNOLOGY.** No particulars received.

**ART INSTITUTE OF CHICAGO, Michigan Avenue, Chicago. (1879.)**

The Art Institute School, the largest in America, holds day, evening, and Saturday classes. Juvenile Classes are held each Saturday.

*Terms:* Three per year.

*Students:* 2,041.

**OFFICIALS.**

*President.*—Charles L. Hutchinson.

*Vice-Presidents.*—Martin A. Ryerson, Frank G. Logan.

*Treasurer.*—Ernest A. Hamill.

*Secretary.*—William F. Tuttle.

*Director of Museum and School.*—George W. Eggers.

*Registrar.*—Fanny J Kendall.

*Librarian.*—Sarah L. Mitchell.

*Head of Design Department.*—Hermann Rosse.

*Head of Normal Department.*—Jeannette Buckley.

*Head of Sculpture Department.*—Albin Polasek.

*Heads of Painting Department.*—Ralph Clarkson, Karl A. Buehr,

Wellington Reynolds.

*Heads of Illustration Department.*—De Forrest Schook, Allen E. Phil-

brick, Richard E. Babock.

*Head of Mural Decoration Department.*—John N. Norton.

Certificate of attainment given at the completion of a 3 years' course.

School Museum in school building.

**Libraries.—**

The Ryerson Library of the Art Institute of Chicago (1879) is devoted to works on fine art. It contains 13,000 volumes, collections of 36,500 photographs, and 19,180 lantern slides.

The Burnham Library, kept in the Ryerson Library, contains 2,400 volumes. The Library is open daily from 9 to 5, Sundays from 2 to 8, with an attendance for the year 1918 of 62,694 students and consulting visitors.

**FIELD MUSEUM OF NATURAL HISTORY, Chicago, Illinois. (1894.)**

**OFFICIALS.**

*Director.*—Frederick J. V. Skiff.

*Recorder.*—D. C. Davies.

**Department of Anthropology.**

*Curator.*—Berthold Laufer.

*Assistant Curator Physical Anthropology and Malayan Ethnology.*—Fay Cooper Cole.

*Assistant Curator of African and Melanesian Ethnology.*—Albert B. Lewis.

*Assistant Curator of Mexican and South American Archeology.*—J. Alden Mason.

*Assistant Curator of Japanese Ethnology.*—Helen C. Gunzauhus.

**Department of Botany.**

*Curator.*—Charles F. Millsbaugh.

*Assistant Curator Economic Botany.*—B. E. Dahlgren.

**Department of Geology.**

*Curator.*—Oliver C. Farrington.

*Assistant Curator.*—H. W. Nichols.

*Assistant Curator of Paleontology.*—Elmer S. Riggs.

**Department of Zoology.**

*Curator.*—Charles B. Cory.

*Assistant Curator of Mammalogy and Ornithology.*—W. H. Osgood.

*Assistant Curator Division of Entomology.*—W. J. Gerhard.

*Assistant Curator Division of Osteology.*—E. N. Gueret.

*Assistant Curator Division of Ichthyology and Herpetology.*—Carl L. Hubbs.

*Assistant Curator Division of Oology.*—R. Magoon Barnes.

**Library,** 50,000 volumes. *Librarian:* Elsie Lippincott.

**CHRISTCHURCH (New Zealand).**

**CANTERBURY COLLEGE,** Christchurch, New Zealand. (1873.)

An affiliated Institution of New Zealand University (*q.v.*).

*Terms:* Three a year.

**OFFICIALS.** See **NEW ZEALAND UNIVERSITY.**

**Degrees conferred.** See **NEW ZEALAND UNIVERSITY.**

**PROFESSORS.**
**Professors:**

H. Stewart, *Classics.* [*Philosophy.*  
J. P. Gabbutt, *Mathematics and Natural*  
W. P. Evans, *Chemistry.*  
R. J. Scott, *Engineering.*  
T. G. R. Blunt, *Modern Languages.*  
C. Chilton, *Biology.* [*ture.*  
A. Wall, *English Languages and Litera-*  
J. Hight, *Economics and History.*  
C. C. Farr, *Physics.*  
C. F. Salmond, *Mental and Moral*  
*Philosophy.*

**Lecturers:**

R. Speight, *Geology, Paleontology and*  
*Physical Geography.*  
T. A. Murphy, *Jurisprudence and Law.*  
J. C. Bradshaw, *Music.*  
T. S. Foster, *Education.*  
P. H. Powell, *Electrical Engineering.*  
W. F. Robinson, *Surveying, Borough*  
*Engineering, and Building Con-*  
*struction.*  
S. Steele, *Mechanical Engineering.*  
7 Assistants, 5 Demonstrators.

**CINCINNATI (Ohio).**

**UNIVERSITY OF CINCINNATI.** No particulars received.

**CLEMSON COLLEGE (S. Carolina).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. W. Barre.

**CLEVELAND (Ohio).**

**WESTERN RESERVE UNIVERSITY,** Cleveland, Ohio. (1826.)

The School of Medicine and the School of Law are graduate schools, a somewhat unique condition in American professional schools.

*Terms:* Two semesters per year.

*Students:* 4,145.

*Budget:* \$600,000.

**OFFICIALS.**

*President.*—Charles F. Thwing, D.D., LL.D., Litt.D.

*Vice-President of Western Reserve University.*—Samuel Mather, A.M., LL.D.

*Vice-President of Adelbert College of Western Reserve University.*—James D. Williamson, A.M., D.D.

*Secretary and Treasurer.*—Sidney S. Wilson, A.B.

*Executive Secretary.*—Ralph W. Bell, A.B.

**Degrees conferred.**—A.B., A.M., B.S., A.M. in Medicine, LL.B., Ph.C., M.D., Doctor of Dental Surgery, Graduate in Pharmacy.



PROFESSORS.

SCHOOL OF MEDICINE.

Professors :

- G. C. Ashmun, *Medical Jurisprudence and Medical Ethics*.  
 W. T. Corlett, *Dermatology*.  
 W. E. Bruner, *Ophthalmology*.  
 F. E. Bunts, *Principles of Surgery and Clinical Surgery*.  
 G. W. Crile, *Surgery*.  
 H. J. Gerstenberger, *Pediatrics*.  
 C. A. Hamann (Dean), *Applied Anatomy and Clinical Surgery*.  
 C. F. Hoover, *Medicine*.  
 W. H. Humiston, *Gynecology*.  
 H. T. Karsner, *Pathology*.  
 R. G. Perkins, *Hygiene and Preventive Medicine*.  
 J. P. Sawyer, *Therapeutics and Clinical Medicine*.  
 T. Sollmann, *Pharmacology and Materia Medica*.  
 G. N. Stewart, *Experimental Medicine*.  
 T. W. Todd, *Anatomy*.  
 F. C. Waite, *Histology and Embryology*.  
 C. J. Wiggers, *Physiology*.

Associate Professors :

- A. H. Bill, *Obstetrics*.  
 C. E. Briggs, *Surgery*.  
 E. P. Carter, *Medicine*.  
 N. W. Ingalls, *Anatomy*.  
 J. M. Ingersoll, *Otology, Rhinology, and Laryngology*.  
 L. W. Ladd, *Clinical Microscopy*.  
 J. N. Lenker, *Otology, Rhinology, and Laryngology*.  
 W. E. Lower, *Genito-Urinary Surgery*.  
 D. Marine, *Experimental Medicine*.  
 R. E. Skeel, *Gynecology*.

Assistant Professors :

- H. A. Becker, *Surgery*.  
 H. N. Cole, *Dermatology*.  
 C. L. Cummer, *Clinical Microscopy*.  
 J. Farnsworth, *Obstetrics*.  
 P. J. Hanzlik, *Pharmacology*.  
 G. E. Harmon, *Hygiene and Bacteriology*.  
 J. L. Morris, *Biochemistry*.  
 B. M. Patten, *Histology and Embryology*.  
 J. Phillips, *Medicine*.  
 E. L. Porter, *Physiology*.  
 J. M. Rogoff, *Experimental Medicine*.  
 A. J. Skeel, *Obstetrics*.  
 M. D. Stepp, *Surgery*.  
 C. W. Stone, *Nervous Diseases*.  
 J. J. Thomas, *Obstetrics*.  
 W. H. Weir, *Gynecology*.  
 11 Associates, 30 Assistants, 30 In-  
 structors, 32 Demonstrators.

FRANKLIN T. BACKUS LAW SCHOOL.

Professors :

- E. Wambaugh, *Law*.  
 A. C. Brightman, *Law—Contracts, Quasi-Contracts, Sales, and Partnership*.  
 F. MacM. Cobb, *Law—Public Service, Corporations*.  
 C. Dewitt, *Law—Surety and Mortgages*.  
 W. T. Dunmore (Dean), *Law—Property, Evidence and Wills*.  
 C. M. Finrock, *Law—Equity Jurisdiction, Trusts, Negotiable Instruments, and Domestic Relation*.  
 A. Hadden, *Law*.  
 R. Inglis, *Law—Private Corporations*.  
 H. H. Johnson, *Constitutional Law*.  
 A. H. Throckmorton, *Law—Agency, Conflict of Laws and Pleading*.  
 1 Instructor, 2 Lecturers.

FACULTY OF THE DENTAL SCHOOL.

Professors :

- F. M. Casto (Dean), *Orthodontia*.  
 C. A. Hamann, *Oral Surgery*.  
 H. H. Hosford, *Chemistry*.  
 N. W. Ingalls, *Anatomy*.  
 W. H. O. McGehee, *Operative Dentistry, Dental Pathology, and Therapeutics*.  
 R. G. Perkins, *Bacteriology*.  
 F. C. Waite, *Histology*.  
 C. J. Wiggers, *Physiology*.  
 G. H. Wilson, *Prosthesis and Metalurgy*.

Assistant Professors :

- J. P. Henahan, *Anesthesia and Exodontia*.  
 J. H. Hood, *Periodontia and Roentgenology*.  
 V. C. Rowland, *Pathology*.  
 8 Instructors, 4 Lecturers, 7 Demonstrators.

FACULTY OF THE LIBRARY SCHOOL.

Professor :

- A. S. Tyler (Miss) (Director), *Library Economy, Library Organization, and Administration*.

Associate Professor :

- A. D. Severence, *Bibliography*.

Assistant Professors :

- L. A. Eastman (Miss), *Library Economy, Library Organization and Administration*.  
 T. E. Grant (Miss), *Library Economy, Cataloguing, Subject Bibliography, Book Selection*.  
 6 Instructors, 14 Lecturers.

# FACULTY OF THE SCHOOL OF PHARMACY.

## Professors :

- E. T. Motley, *Chemistry*.
- E. Spease (Dean), *Pharmacy*.

## Assistant Professor :

- P. J. Hanzlik, *Pharmacology*.
- 1 Associate, 3 Assistants, 10 Lecturers.

## School of Applied Social Sciences.

## Professors :

- C. C. Arbuthnot, *Economics*.
- J. E. Cutler, *Sociology*.
- A. R. Hatton, *Political Science*.
- M. E. Parker (Miss), *Household Administration*.

## Assistant Professors :

- C. W. Coulter, *Sociology*.
- H. W. Dodds, *Political Science*.
- C. E. Gehlke, *Sociology*.
- Many Lecturers and Assistants.

# FACULTY OF ADELBERT COLLEGE.

(Undergraduate College for Men.)

## Professors :

- C. C. Arbuthnot, *Economics*.
- E. J. Benton, *History*.
- C. P. Bill, *Greek*.
- B. P. Bourland, *Romance Languages*.
- M. M. Curtis, *Philosophy*.
- H. P. Cushing, *Geology*.
- J. E. Cutler, *Sociology*.
- O. F. Emerson, *English*.
- C. Harris, *German*.
- A. R. Halton, *Political Science*.
- F. H. Herrick, *Biology*.
- W. G. Leutner (Dean), *Greek and Latin*.
- H. W. Mountcastle, *Physics and Astronomy*.
- A. D. Pitcher, *Mathematics*.
- S. B. Platner, *Latin*.
- O. F. Tower, *Chemistry*.

## Associate Professors :

- J. E. Hyde, *Geology*.
- J. S. Moore, *Philosophy*.
- B. E. Schmitt, *History*.
- H. S. Woodward, *English*.

## Assistant Professors :

- J. J. Breitenbecher, *Biology*.
- C. W. Coulter, *Sociology*.
- H. W. Dodds, *Political Science*.

**Post-Graduate Courses.**—No special statement for the Graduate School for the current year.

## Institutes and Museums.—

- Reference Museum at the Dental School.
- Geological collections in the Geological Laboratory.
- Natural History Museum in Biological Laboratory.
- Institute of Religious Education.

## Assistant Professors—Continued :

- C. E. Gehlke, *Sociology*.
- A. F. O. Germann, *Chemistry*.
- W. J. Graham, *English*.
- C. D. Lamberton, *Biblical Literature*.
- C. H. Otis, *Biology*.
- O. E. Staaf, *Romance Languages*.
- E. von den Steiner, *Physical Training*.
- 15 Instructors.

# FACULTY OF COLLEGE FOR WOMEN.

## Professors :

- H. A. Aikins, *Philosophy*.
- C. C. Arbuthnot, *Economics*.
- J. L. Borgerhoff, *Romance Languages*.
- H. E. Bourne, *History*.
- C. E. Clemens, *History and Theory of Music*.
- H. P. Cushing, *Geology*.
- J. E. Cutler, *Sociology*.
- R. W. Deering, *German*.
- E. N. Fowler, *Greek*.
- H. Gruener, *Chemistry*.
- H. M. Haydn, *Biblical Literature*.
- F. H. Herrick, *Biology*.
- W. H. Hulme, *English*.
- H. W. Mountcastle, *Physics and Astronomy*.
- C. L. Myers (Miss), *English*.
- M. E. Partar (Miss), *Household Administration*.
- A. H. Palmié (Miss), *Mathematics*.
- E. M. Perkins (Miss), *Latin*.
- H. M. Smith (Miss), (Dean).
- L. Thorndike, *History*.

## Associate Professor :

- J. C. Chapman, *Experimental Education*.

## Assistant Professors :

- F. R. Amos (Miss), *English*.
- J. R. Breitenbecker, *Biology*.
- E. R. Beckwith (Mrs.), *Mathematics*.
- E. Ferris (Miss), *History*.
- A. F. O. Germann, *Chemistry*.
- J. E. Hyde, *Geology*.
- M. G. Lundberg (Miss), *Household Administration*.
- I. T. O'Neil (Mrs.), *Romance Languages*.
- C. H. Otis, *Biology*.
- 16 Instructors.

**Libraries.**—

Hatch Library, 95,519 volumes, 30,000 unbound books and pamphlets.  
*Librarian* : G. F. Strong. *Assistant Librarian* : Miss H. M. Beale.  
 The Library, The College for Women, 15,617 volumes. *Librarian* : Miss C. E. Waters.  
 The Law School Library, 15,000 volumes.  
 The School of Medicine, 5,500 volumes.  
 The Dental School, 500 volumes.  
 The Library School, 2,500 volumes.  
 The School of Pharmacy, 500 volumes.

**CASE SCHOOL OF APPLIED SCIENCE** (Engineering College), Cleveland, Ohio.  
 (1881.)

This is an engineering college. The work is both theoretical and practical. About one-half of each day is given to practical work in the drafting room, laboratory, the shop, or the field. The month of June is a practice term, when all the time is given to practical work in the laboratories or in the surveying camps. Length of Course, 4 years.

*Terms* : Two semesters and one practice term.  
*Budget* : \$201,979.

*Students* : 781.

**OFFICIALS.**

*President*.—Charles S. Howe, Ph.D., D.Sc., LL.D.  
*Dean*.—Theodore M. Focke, Ph.D.  
*Secretary of the Board of Trustees*.—Eckstein Case.

**Degrees conferred.**—B.S., M.S.

**PROFESSORS.**

**Professors :**

F. M. Comstock, *Drawing and Descriptive Geometry*.  
 A. S. Wright, *Modern Languages*.  
 D. C. Miller, *Physics*.  
 A. W. Smith, *Chemistry*.  
 F. H. Neff, *Civil Engineering*. [*ology*.]  
 F. R. Van Horn, *Geology and Mineralogy*.  
 H. B. Dates, *Electrical Engineering*.  
 G. H. Johnson, *History*.  
 C. H. Fulton, *Mining Engineering*.  
 F. H. Vose, *Mechanical Engineering*.  
 R. H. Danforth, *Mechanics*.

**Associate Professors :**

D. T. Wilson, *Astronomy and Mathematics*.  
 W. R. Veazey, *Chemistry*. [*atics*.]  
 C. L. Eddy, *Railroad Engineering*.

**Assistant Professors :**

C. W. Coppersmith, *Machine Design*.  
 H. F. Pasini, *Gymnasium*.  
 C. D. Hodgman, *Physics*.  
 R. C. Hummell, *Chemistry*.  
 N. A. Lange, *Chemistry*.  
 E. J. Martin, *Physics*.  
 K. O. Thompson, *English*.  
 H. M. Showman, *Mechanics*.  
 E. J. Staples, *Electricity*.  
 W. E. Stark, *Mechanical Engineering*.  
 C. F. Thomas, *Mathematics*.  
 C. W. Thomas, *Drawing and Descriptive Geometry*.  
 W. D. Trautmann, *Modern Languages*.  
 14 Lecturers and 31 Instructors.

**Post-Graduate Courses.**—In Civil Engineering, Mechanical Engineering, Chemical Engineering, Mining Engineering, Metallurgical Engineering, Physics. Leading to the degrees of Civil Engineer, Mechanical Engineer, Chemical Engineer, Mining Engineer, Metallurgical Engineer, and Master of Science.

*Librarian* : K. O. Thompson. Each department has its own special library under the charge of one of the assistant professors or instructors.

**Museum.**—Geology and Mineralogy.

**COLLEGE OF PHYSICIANS AND SURGEONS.** No particulars received

**CLINTON (New York).****HAMILTON COLLEGE**, Clinton, New York. (1812.)*Terms* : Two semesters per year.*Students* : 294.*Budget* : \$150,000 approximately.**OFFICIALS.***President*.—Frederick C. Ferry.*Chairman of the Board of Trustees*.—Hon. Elihu Root.*Clerk of the Board of Trustees*.—George E. Dunham.*Treasurer*.—Charles B. Rogers.*Registrar*.—Samuel J. Saunders.*Dean*.—Arthur P. Saunders.*Clerk of the Faculty*.—Horace S. Brown.**Degrees conferred**.—A.B., B.S., A.M., M.S., D.D., LL.D., Litt.D. Oxford fashion of hoods used.**PROFESSORS.****FACULTY OF ARTS AND SCIENCE.****Professors :**F. C. Ferry, *Mathematics*.H. C. G. Brandt, *German Language and Literature*.A. D. Morrill, *Biology*.W. H. Squires, *Philosophy*.S. J. Saunders, *Physics*.W. P. Shepard, *Romance Languages and Literature*.A. P. Saunders, *Agriculture and General Chemistry*.E. Fitch, *Greek*.J. D. Ibbotson, *Hebrew*.F. H. Wood, *Political Science*.F. M. Davenport, *Law and Civil Polity*.C. L. Lewis, *Rhetoric and Oratory*.**Post-Graduate Courses**.—The Degrees of Master of Arts and Master of Science is conferred upon graduates of Hamilton, or of any other college with equivalent courses, for residence of one year.**Museums and Learned Institutions.**

Museum of Natural History.

The Epsilon Chapter in New York State of the Honorary Educational Society, *Phi Beta Kappa*.**Library**.—The College Library contains 86,000 volumes and 23,000 pamphlets. *Librarian* : J. D. Ibbotson.**COIMBATORE (India).****THE AGRICULTURAL COLLEGE AND RESEARCH INSTITUTE**, Coimbatore, India. (1896.)

The College is a part of the Agricultural Department of the Government of Madras.

*Terms* : Three per year.*Students* : 120.*Budget* : Department budget of Expenditure:

Allotment for Principal (1919-20): Rs. 43,000.

**OFFICIALS.***Principal*.—Cecil Wood, M.A.*Acting Principal*.—W. McRae, M.A., B.Sc., F.L.S.*Assistant Principal*.—Rai Sahib M. R. Ramaswami Sivan Ayl., B.A.*Superintendent* (Central Farm).—Cecil Wood.*Superintendent* (acting, Central Farm).—R. C. Broadfoot, and 1 Farm Office Manager.*Government Mycologist*.—W. McRae, and 4 Assistants.*Government Economic Botanist*.—F. R. Parnell.*Government Economic Botanist* (acting).—G. N. Rangaswami Ayyangar Ayl., and 3 Assistants.



## COIMBATORE ATHENA—A YEAR-BOOK OF THE LEARNED WORLD

*Government Agricultural Chemist.*—R. V. Norris, and 8 Assistants.

*Government Entomologist.*—E. Ballard, and 5 Assistants.

*Government Systematic Botanist.*—R. B. K. R. Acharyar, and 3 Assistants.

*Government Sugarcane Expert.*—C. A. Barber.

*Government Sugarcane Expert* (acting).—T. S. Venkataraman, and 3 Assistants.

*Professor of Agriculture.*—C. Wood.

*Professor of Agriculture* (acting).—D. A. R. Garu, and 1 Lecturer, 5 Assistants, and 1 Supervisor.

**Degrees and Hoods.**—Certificate of Proficiency in Practical Agriculture. Diploma of Agriculture, carrying the designation of Licentiate in Agriculture (L.Ag.)

**Library** containing 3,126 volumes; 4,137 periodicals; 11,756 pamphlets, bulletins, etc. *Librarian* : R. V. Norris, D.Sc., M.Sc., F.I.C.

## COLD SPRING HARBOR (Long Island, N.Y.).

**EUGENICS RECORD OFFICE**, Cold Spring Harbor, Long Island. (1910.)

One of the departments of the Carnegie Institution of Washington. Founded by Mrs. E. H. Harriman and maintained by her until January 1st, 1918, when it was given by her to the Carnegie Institution of Washington.

*Terms* : Work is continuous. *Budget* : \$26,350. (1919.)

*Director.*—Chas. B. Davenport, Ph.D.

*Superintendent.*—H. H. Laughlin, Sc.D.

**Research Staff.** (Work in Eugenics.)

H. J. Banker, Families of college men and women.

A. H. Estabrook, The Ishmaelites.

L. A. Nelson (Miss), Archivist.

Elizabeth B. Muncey, M.D., Field Worker.

M. L. Earle (Miss), Library Reader.

**Learned Societies.**—The Eugenics Research Association, composed of field workers who have been trained at the Eugenics Record Office, and others doing professional work in human heredity. 136 active members and 9 supporting.

**Library**, about 3,000 volumes; Archives, 75,000 sheets of original manuscript data; 700,000 index cards to materials.

## STATION FOR EXPERIMENTAL EVOLUTION, Cold Spring Harbor, Long Island, N.Y. (1904.)

One of the departments of the Carnegie Institution of Washington, and supported by a part of the endowment given to the Carnegie Institution of Washington by Andrew Carnegie.

*Budget* (1919): \$63,474.

*Director.*—Chas. B. Davenport, Ph.D.

**Research Staff.** (Work in Genetics.)

A. M. Banta, Cave Animals and sex control.

A. F. Blakeslee, Plant genetics and intermediate sex.

H. D. Fish, Heredity of spotted hair coats.

J. A. Harris, Biometry and plant genetics.

C. C. Little, Cancer in mice, human sex ratios.

C. W. Metz, *Drosophila* experiments and chromosomes.

O. Riddle, Pigeons, Physiology of reproduction.

E. C. MacDowell, Effects of environment on germ-plasm.

Library of about 5,700 volumes.

## BIOLOGICAL LABORATORY, Cold Spring Harbor, Long Island. (1890.)

A Department of the Brooklyn Institution of Arts and Sciences.

*Terms* : From July to mid-August. (Six weeks.)

*Students* : Usually limited to about 50. Persons received are generally teachers or graduates of colleges.

*Budget* : \$3,725 for 1919.

*Director.*—Chas. B. Davenport, Ph.D.

*Assistant Director.*—H. E. Walter, Ph.D.

## PROFESSORS.

H. S. Pratt, *Anatomy*.  
 A. H. Walter (Mrs.), *Bird Study*.  
 H. H. Laughlin, *Training Course for  
 Field Workers in Eugenics*.

J. W. Harshberger, *Botany*.  
 H. H. Wilder, *Physical Anthropology*.  
 H. D. Fish, *Heredity*.

4 Permanent Assistants and several appointed for temporary work; 11 Lecturers, Readers, etc.

**COLLEGE PARK (Maryland).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*.—H. J. Patterson.

**COLOMBO (Ceylon).**

**THE COLOMBO MUSEUM, Colombo, Ceylon.**

*Director*.—Joseph Pearson, D.Sc., F.R.S.E., F.L.S.  
*Marine Biologist*.—Joseph Pearson, D.Sc., F.R.S.E., F.L.S.  
*Assistant Marine Biologist*.—L. H. James, M.A.  
*Entomologist*.—G. M. Henry.  
*Secretary and Librarian*.—G. A. Joseph.

The Museum was founded in 1875 by the Right. Hon. Sir William Gregory, K.C.M.G., Governor of Ceylon.

The **Exhibition Galleries** contain Medieval, Archeological, and Ethnographical objects belonging to Ceylon, divided into the following sections: Ethnological Rooms, Bronze Room, Stone Gallery, and Furniture Room. The exhibits include copies of unique twelfth-century paintings of Buddhist Art.

The **Mineral Gallery** contains a collection of rocks, minerals, and gems of Ceylon, arranged by the Mineralogical Survey.

The **Natural History Gallery** contains an exhibition of vertebrate and invertebrate animals belonging to the Fauna of Ceylon. It comprises the following principal sections:

1. Main Gallery, containing birds, also several groups of invertebrates—*e.g.*,
2. Fish Gallery (including marine invertebrates). [insects, etc.]
3. Mammalian Gallery.
4. Reptile Gallery.
5. Research Collection. There are very fine collections of insects (especially Lepidoptera), as well as collections of mammal and bird skins and marine invertebrates.

In recent years the Museum has benefited by the accession of extensive collections—*e.g.*, the Pole Collection of Lepidoptera, the Swayne Collection of Snakes, the Collett Collection of Land Mollusca, together with extensive donations by various local naturalists.

The **Colombo Museum Library** contains upwards of 10,000 volumes. The Library receives a copy of every work published in the Colony since 1885. It contains many rare and valuable works of reference on Natural Science, Oriental Literature, and Ceylon. The special characteristics of the Library are the possession of one of the best—if not the best—collections of Ceylonese literature, a very good collection of books on Biology, and a most valuable collection of ola palm-leaf manuscripts in Sinhalese, Pali, and Sanskrit. The ola manuscripts number nearly 500, and the greater portion are the sacred Buddhistical books; but besides these manuscripts there are historical, philological, medical, poetical, and other works of a miscellaneous character.

The **Library of the Ceylon Branch of the Royal Asiatic Society**, founded in 1845, is also housed in the Museum. This Library contains about 8,000 volumes, consisting of many valuable books on Ceylon, Archeology, Oriental Literature, Voyages, and a large collection of the publications of learned societies with which the local society exchanges its Journal.

**Publications**.—"Spolia Zeylanica," a quarterly Journal established in 1903; "Memoirs of the Colombo Museum;" also various catalogues and guides.

**COLOMBO OBSERVATORY**, Colombo. (Attached to Survey Department, Ceylon.)  
Time and Meteorology.

OFFICIALS.

*Superintendent*.—A. J. Bamford, B.A., B.Sc., F.R.A.S., F.R. Met. Soc.  
*First Assistant*.—J. E. Evans, F.R. Met. Soc., pro. tem., Acting Superintendent.  
*Assistant*.—H. Jameson, B.Sc.  
*Meteorological Observer*.—F. A. Pullenayegum.  
13 Assistant Clerks.

**COLORADO SPRINGS (Colorado).**

**COLORADO COLLEGE**, Colorado Springs, Colorado. (1874.)

*Terms* : Two half-years—September to January, and February to June.

*Students* : 500-700.

*Budget* : Average about \$25,000; often higher as special gifts are received.

OFFICIALS.

<i>President</i> .—C. A. Duniway.	<i>Registrar</i> .—J. M. Morrow.
<i>Secretary</i> .—R. H. Motten.	<i>Treasurer</i> .—W. W. Postlethwaite.
<i>Dean of College</i> .—J. G. McMurtry.	<i>Librarian</i> .—M. D. Ormes.
<i>Dean of Women</i> .—Marion Churchill.	

*Degrees conferred*.—A.B., B.S., A.M., M.S., F.E. (Forest Engineer), C.E., E.E.

PROFESSORS.

**DEPARTMENT OF ARTS AND SCIENCES.**

**Professors :**

(Vacant), *Romance Languages*.  
J. G. McMurtry, *Biblical Literature*.  
R. J. Gilmore, *Biology*.  
W. Strieby, *Chemistry*.  
A. E. Davies, *Education*.  
R. H. Motten, *English*.  
G. K. Pattee, *English*.  
S. Thompson, *English*.  
G. M. Howe, *German*.  
C. C. Mierow, *Greek and Latin*.  
C. H. Sisam, *Mathematics*.  
G. H. Albright, *Mathematics*.

**Associate Professors :**

F. W. Douglas, *Chemistry*.  
S. F. Bemis, *History*.  
W. V. Lovitt, *Mathematics*.

**Assistant Professors :**

A. E. Lambert, *Biology*.  
P. V. West, *Education*.  
F. C. Palm, *History*.  
11 Instructors.

**DEPARTMENT OF ENGINEERING.**

**Professor :** [and *Physics*.]  
R. R. Tileston, *Electrical Engineering*

*Post-Graduate Courses*.—Limited amount in several departments; primarily an undergraduate college.

*Museums*.—Natural History. Miscellaneous. Fine Arts Collection.

**AFFILIATED INSTITUTION.**

Academy of Fine Arts.

**COLORADO SCHOOL OF MINES.** See GOLDEN.

**COLUMBIA UNIVERSITY.** See NEW YORK.

**Associate Professors :**

F. M. Okey, *Civil Engineering*.  
W. V. Lovitt, *Civil Engineering*.

**Assistant Professors :**

G. H. Bardsley, *Civil Engineering*.  
Gordon Parker, *Civil Engineering*.  
1 Instructor.

**DEPARTMENT OF BUSINESS ADMINISTRATION.**

**Professors :**

A. P. R. Drucker, *Business Administration and Banking*.  
Holmes Beckwith, *Business Administration and Banking*.

**Assistant Professor :**

J. Ewart, *Business Administration and Banking*.  
1 Instructor.

**DEPARTMENT OF MUSIC.**

*Dean*.—E. D. Hale.  
5 Instructors.

**DEPARTMENT OF FINE ARTS.**

*Directors*.—S. F. Leaming (Miss).  
C. Leaming (Miss).

**COLUMBIA (Missouri).****UNIVERSITY OF MISSOURI.** No particulars received.**THE STATE HISTORICAL SOCIETY OF MISSOURI,** Columbia, Missouri.

Founded 1898. Incorporated 1899.

*Budget*: 1919-20, by appropriation of the State of Missouri, \$35,685.**OFFICIALS.***President*.—Walter B. Stevens, St. Louis, Mo.*Secretary*.—Floyd C. Shoemaker, Columbia, Mo.

6 Vice-Presidents, 1 Treasurer, 26 Trustees.

**Publishes Quarterly Magazine**.—"The Missouri Historical Review," 13 volumes published.**Library**.—180,000 books and pamphlets; 10,000 bound volumes Missouri newspapers. *Librarian*: F. C. Shoemaker.**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director*.—F. B. Mumford.**COLUMBUS (Ohio).****THE OHIO STATE UNIVERSITY,** Columbus, Ohio. (1870.)*Terms*: September to June, and summer session.*Students* (1918-1919): 5,065. *Budget*: \$2,000,000.**OFFICIALS.***President*.—W. O. Thompson, D.D., LL.D.*Secretary and Registrar*.—Miss E. D. Corkins, B.A.**Degrees conferred**.—B.Sc. (Agr.), B.A., B.Sc., D.D.S., B.Sc. (Edu.), M.D., D.V.M., B.Arch., J.D., LL.B.**PROFESSORS.****COLLEGE OF ARTS,  
PHILOSOPHY, AND SCIENCE.****Professors:**G. F. Arps, *Psychology*.F. C. Blake, *Physics*.R. D. Bohannon, *Mathematics*.G. M. Bolling, *Greek Language and Literature*.B. L. Bowen, *Romance Languages and Literature*.J. A. Bownocker, *Inorganic Geology*.J. N. Bradford, *Architecture*.J. E. Carman, *Geology*.C. St. J. Chubb, jr., *Architecture*.F. W. Coker, Ph.D., *Political Science*.A. D. Cole, *Physics*.G. L. Converse, Major, *Military Science and Tactics*.D. J. Demorest, *Metallurgy*.J. V. Denney, *English*.S. C. Derby, *Latin*.R. F. Earhart, *Physics*.B. A. Eisenlohr, *German*.W. S. Elden, *Latin*.M. B. Evans, *German*.W. L. Evans, *Chemistry*.C. W. Foulk, *Analytical Chemistry*.**Professors—Continued:**W. L. Graves, *English*.J. E. Hagerty, *Economics and Sociology*.

M. B. Hammond "

W. E. Henderson, *Inorganic* " and *Physical Chemistry*.H. C. Hockett, *American History*.A. W. Hodgman, *Latin*.C. C. Huntington, *Economics and Sociology*.E. S. Inghram, *Romance Languages*.C. F. Kelley, *Art*.V. A. Ketcham, *English*.G. W. Knight, *American History*.H. W. Kuhn, *Mathematics*.J. A. Leighton, *Philosophy*.H. C. Lord, *Astronomy*.W. J. McCaughey, *Mineralogy*.G. W. McCoard, *Mathematics*.C. C. McCracken, *School Administration*.G. H. McKnight, *English*.E. H. McNeal, *European History*.W. McPherson, *Chemistry*.H. D. Minchin, *Applied Optics*.C. C. Morris, *Mathematics*.H. Osborn, *Zoology and Entomology*.



**Professors—Continued**

- R. C. Osburn, *Zoology and Entomology*.  
 C. Perkins, *European History*.  
 J. H. Schaffner, *Botany*.  
 C. Sheard, *Physics and Applied Optics*.  
 W. H. Siebert, *European History*.  
 A. W. Smith, *Physics*.  
 H. D. Smith, *Architecture*.  
 H. R. Spencer, *Political Science*.  
 K. D. Swartzel, *Mathematics*.  
 J. R. Taylor, *English*.  
 E. N. Transeau, *Botany*.  
 E. L. Usry, *Manual Training*.  
 A. R. Van Meter (Miss), *Home Economics*.  
 E. N. White (Miss), *Home Economics*.  
 J. R. Withrow, *Chemistry*.  
 S. E. Rasor, *Mathematics*.  
 C. O. Ruggles, *Economics and Sociology*.

**Associate Professors :**

- C. L. Arnold, *Mathematics*.  
 J. S. Hine, *Zoology and Entomology*.  
 E. S. Manson, jr., *Astronomy*.

**Assistant Professors :**

- C. E. Andrews, *English*.  
 A. E. Avey, *Philosophy*.  
 G. M. Bareis (Miss), *Mathematics*.  
 S. T. Barrows (Miss), *German*.  
 W. M. Barrows, *Zoology and Entomology*.  
 H. M. Beatty, *Mathematics*.  
 E. L. Beck, *English*.  
 C. E. Boord, *Chemistry*.  
 C. S. Boucher, *American History*.  
 J. W. Bridges, *Psychology*.  
 A. R. Chandler, *Philosophy*.  
 G. S. Chapin, *Romance Languages*.  
 L. A. Cooper, *English*.  
 J. E. Day, *Chemistry*.  
 P. H. Elwood, *Landscape Architecture*.  
 R. F. Griggs, *Botany*.  
 T. E. Hamilton, *Romance Languages*.  
 M. C. Hathaway (Miss), *Home Economics*.  
 H. G. Heil, *Physics*.  
 T. M. Hills, *Geology*.  
 M. Hollingsworth, *Chemistry*.  
 F. H. Krecker, *Zoology and Entomology*.  
 E. H. Mack, *Chemistry*.  
 C. L. Metcalf, *Zoology and Entomology*.  
 C. C. North, *Economics and Sociology*.  
 H. L. Olin, *Chemistry*.  
 M. Percival, *English*.  
 J. B. Preston, *Mathematics*.  
 A. R. Robinson (Miss), *Art*.  
 W. G. Stover, *Botany*.  
 M. Thomas (Miss), *German*.  
 W. M. Tucker, *Geology*.  
 H. F. Waldradt, *Economics and Sociology*.  
 G. Washburne, *European History*.  
 A. P. Weiss, *Psychology*.

**COLLEGE OF AGRICULTURE.**

**Professors :**

- F. E. Bear, *Soils*.  
 O. Erf, *Dairying*.  
 D. J. Kays, *Animal Husbandry*.  
 J. F. Lyman, *Agricultural Chemistry*.  
 L. M. Montgomery, *Horticulture*.  
 W. Paddock, *Horticulture*.  
 J. B. Park, *Farm Crops*.  
 C. S. Plumb, *Animal Husbandry*.  
 H. C. Ramsower, *Agricultural Engineering*.  
 A. Vivian, *Agricultural Chemistry*.

**Assistant Professors :**

- J. S. Coffey, *Animal Husbandry*.  
 H. E. Erdman, *Rural Economics*.  
 J. I. Falconer, " "  
 A. C. Hottes, *Floriculture*.  
 F. W. Ives, *Agricultural Engineering*.  
 F. S. Jacoby, *Poultry Husbandry*.  
 E. F. Johnson, *Agricultural Education*.  
 T. D. Phillips, *Rural Economics*.  
 T. G. Phillips, *Agricultural Chemistry*.  
 N. W. Scherer, *Horticulture*.  
 R. B. Stoltz, *Dairying*.  
 C. J. Willard, *Farm Crops*.

**COLLEGES OF MEDICINE,  
PHARMACY, AND DENTISTRY.**

**Professors:**

- A. M. Bleile, *Anatomy and Physiology*.  
 C. Brooks, *Physiology and Pharmacology*.  
 J. E. Brown, *Oto-Laryngology*.  
 F. A. Burrett, *Surgery and Clinical Surgery*.  
 H. V. Cottrell, *Prosthetic Dentistry*.  
 C. A. Dye, *Pharmacy*.  
 J. A. Ferree, *Eye, Ear, Nose, and Throat*.  
 F. B. Grosvenor, *Clinical Diagnosis and Microscopy*.  
 A. E. Hissdale, *Materia Medica and Clinical Therapeutics*.  
 W. A. Humphrey, *Diseases of Women, Surgical Gynecology, and Obstetrics*.  
 F. L. Landaere, *Anatomy*.  
 E. F. McCampbell, *Preventive Medicine*.  
 C. B. Morrey, *Bacteriology*.  
 R. Pintner, *Psychology*.  
 A. Rogers, *Obstetrics*.  
 E. Scott, *Pathology*.  
 H. M. Semans, *Operative Dentistry and Dental Anatomy*.  
 S. Sisson, *Comparative Anatomy*.  
 C. L. Spohr, *Clinical Pathology*.  
 A. Timberman, *Ophthalmology*.  
 J. H. J. Upham, *Medicine*.  
 Y. Wardlow, *Clinical Gynecology*.  
 R. C. Wolcott, *Internal Medicine*.

**Assistant Professors :**

- L. L. Bigelow, *Surgery*.  
 H. B. Blakey, *Medicine*.  
 E. C. Buck, *Anatomy*.

**Assistant Professors—Continued :**

J. J. Coons, *Medicine*.  
V. A. Dodd, *Surgery and Gynecology*.  
F. Fletcher, *Gynecology*.  
J. Forman, *Pathology*.  
E. J. Gordon, *Medicine*.  
W. C. Graham, *Dental Medicine*.  
E. A. Hamilton, *Surgery*.  
I. B. Harris, *Clinical Surgery*.  
S. A. Hatfield, *Medicine*.  
E. R. Hayhurst, *Hygiene*.  
C. H. Hebble, *Operative Dentistry*.  
E. G. Horton, *Pediatrics*.  
C. McPeck, *Physiology*.  
R. G. Paterson, *Public Health*.  
R. J. Seymour, *Anatomy and Physiology*.  
C. J. Shepard, *Dermatology*.  
W. A. Starin, *Bacteriology*.  
A. M. Steinfeld, *Surgery*.  
J. H. Warren, *Anatomy*.  
R. B. Wiltberger, *Crown, Bridge, and Porcelain*.

**COLLEGE OF EDUCATION.**
**Professors :**

L. F. Anderson, *History and Philosophy of Education*.  
S. W. Brown, *School Administration*.  
F. R. Castleman, *Physical Education*.  
J. L. Clifton, *Principles and Practice of Education*.  
J. Nichols, *Physical Education*.  
L. St. John, " "  
G. R. Twiss, *Principles and Practice of Education*.  
J. W. Wilce, *Physical Education*.

**Assistant Professors :**

F. A. Meyer (Miss), *Physical Education*.  
W. F. Stewart, *Agricultural Education*.

**COLLEGE OF ENGINEERING.**
**Professors :**

J. E. Boyd, *Mechanics*.  
F. C. Caldwell, *Electrical Engineering*.  
E. F. Coddington, *Mechanics*.  
D. J. Demorest, *Metallurgy*.  
F. H. Eno, *Municipal Engineering*.  
T. E. French, *Engineering Drawing*.  
W. A. Knight, *Machine-Stop Practice*.

**Post-Graduate Courses.**—In Arts, Philosophy, Science, Education, Engineering, Commerce, and Literature, and summer courses in Botany, Entomology, and Zoology at the Late Laboratory.

**Library.**—University Library. Contains 184,268 volumes including, the Parliamentary Papers of Great Britain, an excellent collection of new books in Animal Husbandry, and a collection of works on the Civil War. *Librarian* : Miss O. Jones.

**Museums.—**

Archeological and Historical Museum. *Curator* : W. C. Mills.  
Geological Museum. *Curator* : J. E. Carman.  
Botanical Museum.  
Zoological Museum.  
Ceramic Museum.  
Veterinary Anatomy Museum.

**Professors—Continued :**

W. J. McCaughey, *Mineralogy*.  
W. T. Magruder, *Mechanical Engineering*.  
F. W. Marquis, *Steam Engineering*.  
C. T. Morris, *Structural Engineering*.  
C. A. Norman, *Machine Design*.  
E. Orton, jr., *Ceramic Engineering*.  
F. A. Ray, *Mine Engineering*.  
C. E. Sherman, *Civil Engineering*.  
A. S. Watts, *Ceramic Engineering*.

**Associate Professor :**

H. Judd, *Experimental Engineering*.

**Assistant Professors :**

C. B. Harrop, *Ceramic Engineering*.  
R. Meiklejohn, *Engineering Drawing*.  
H. E. Nold, *Mine Engineering*.  
D. Schaaf, *Metallurgy*.  
R. C. Sloane, *Civil Engineering*.  
C. L. Svensen, *Engineering Drawing*.  
W. D. Turnbull, " "  
O. E. Williams, " "  
H. Wilson, *Ceramic Engineering*.

**COLLEGE OF LAW.**
**Professors :**

J. J. Adams, *Law*.  
C. D. Laylin, "  
J. W. Madden, *Law*.  
G. W. Rightmire, *Law*.  
A. H. Tuttle, *Law*.

**COLLEGE OF VETERINARY MEDICINE.**
**Professors :**

O. V. Brumley, *Veterinary Surgeon*.  
A. G. G. Richardson, *Veterinary Pathology*.  
D. S. White, *Veterinary Medicine*.

**Assistant Professors :**

W. A. Hobbs, *Veterinary Medicine*.  
J. N. Shoemaker, *Veterinary Medicine*.  
J. H. Snook, *Veterinary Surgery*.

**COLLEGE OF COMMERCE AND JOURNALISM.**
**Professors :**

O. C. Hooper, *Journalism*.  
J. S. Myers, "

## OHIO ACADEMY OF SCIENCE, Columbus, Ohio.

Organized 1891. Incorporated 1892.

## OFFICERS (1919-20).

*President*.—Prof. F. C. Blake, Ohio State University, Columbus.*Vice-Presidents*.—*Zoology* : Prof. F. H. Herrick, Western Reserve University, Cleveland.*Botany* : Prof. A. B. Plowman, Municipal University of Akron, Akron.*Geology* : Prof. J. E. Hyde, Western Reserve University, Cleveland.*Physics* : Prof. J. A. Culler, Miami University, Oxford.*Medical Sciences* : Prof. R. J. Seymour, Ohio State University, Columbus.*Psychology* : Prof. G. R. Wells, Ohio Wesleyan University, Delaware.*Secretary*.—Prof. Edward L. Rice, Ohio Wesleyan University, Delaware.*Treasurer*.—Prof. W. J. Kostir, Ohio State University, Columbus.*Librarian*.—C. W. Reeder, Ohio State University Library, Columbus.

Membership, about 275.

*Sections*.—Zoology, Botany, Geology, Physics, Medical Sciences, Psychology.*Meetings* are held in various college towns of the State.*Publications*.—Proceedings of the Ohio Academy of Science, consisting of Annual Reports and a series of Special Papers (19 published). *Official Organ* : "Ohio Journal of Science."

## CORK.

UNIVERSITY COLLEGE, Cork. (1845.)

*Terms* : Three per year.*Students* : 626.*Budget* : Government Grant, £20,000.

## OFFICIALS.

*President*.—Sir Bertram C. A. Windke, M.A., D.Sc., LL.D., F.R.S., F.S.A., M.R.I.A., K.S.G.*Registrar*.—Prof. P. J. Merriman, M.A.*Secretary and Bursar*.—Joseph Downey.*Librarian*.—John Fawcett, M.A.

Degrees as National University of Ireland.

## PROFESSORS.

## FACULTY OF ARTS.

**Professors :**W. F. P. Stockley, *English*.G. E. Lindsay (Mrs.), *German*.H. J. Treston, *Ancient Classics*.P. J. Merriman, *History*.E. M. O'Sullivan (Miss), *Methods of Education*.St. J. Lacy, *Music*.Rev. T. E. Fitzgibbon, *Philosophy*.M. Ryan (Miss), *Romance Languages*.Rev. P. Power, *Archeology*.**Lecturers :**W. H. Porter, *Ancient Classics*.E. P. McSweeney, *History of Education*.W. C. Cooke, *Spanish*.

## FACULTY OF SCIENCE.

**Professors :**M. J. Conran, *Mathematics*.H. A. Cummins, *Botany and Agriculture*.A. E. Dixon, *Chemistry*.**Professors—Continued :**I. Swain, *Geology and Geography*.A. J. Rahilly, *Mathematical Physics*.W. Bergin, *Physics*.M. Hartog, *Zoology*.**Lecturers :**A. Hill, *Architecture*.E. W. Hoare, *Veterinary Science*.

## FACULTY OF MEDICINE.

**Professors :**D. P. Fitzgerald, *Anatomy*.D. D. Donovan, *Hygiene*.P. T. O'Sullivan, *Medical Jurisprudence*.W. E. Ashley Cummins, *Medicine*.H. Corby, *Obstetrics and Gynecology*.A. W. Sandford, *Ophthalmology and*A. E. Moore, *Pathology*. [Otolaryngology.]D. T. Barry, *Physiology*.C. Yelverton Pearson, *Surgery*.J. Dundon, *Therapeutics and Materia Medica*.

**Lecturers :**

J. J. Fitzgerald, *Mental Diseases*.  
 J. R. Hackett, *Dental Surgery*.  
 G. Sheedy, *Dental Mechanics*.

**FACULTY OF LAW.****Professors :**

G. J. Stokes, *Philosophy and Jurisprudence*.  
 H. J. Moloney, *Law of Real Property and of Equity*.  
 W. J. Dunlea, *Law of Contracts, of Personal Property and Torts*.

**FACULTY OF COMMERCE.****Professor :**

T. Smiddy, *Economics and Commerce*.

**Post-Graduate Courses** for the Degrees of Master and Doctor in the Faculties of the National University of Ireland.

**Institutes, Museums, Learned Societies.—**

Museums of Natural History, Geology and Mineralogy, Medicine, Archeology and Ethnography.

Crawford Observatory, and Botanic Gardens.

Literary and Philosophical Society, Irish Literary Society, Engineering Society, Scientific Society, Commerce Society.

**College Library.**—60,000 volumes. *Librarian* : J. Fawcett, M.A.

**Lecturer :**

A. J. Magennis, *Accounting*.

**FACULTY OF ENGINEERING.****Professor :**

C. W. L. Alexander, *Civil Engineering*.

**Lecturer :**

P. E. Belas, *Electrical Technology*.

**FACULTY OF CELTIC STUDIES.****Professor :**

T. O'Donoghue, *Irish Languages and Literature*.

**Lecturer :**

E. O'Donoghue, *Modern Irish*.

**CORNEL UNIVERSITY.** *See* ITHACA.

**CORVALLIS (Oregon).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—A. B. Cordley.

**CROWLEY (Louisiana).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—W. R. Dodson.

**DALHOUSIE UNIVERSITY.** *See* HALIFAX.

**DARTMOUTH COLLEGE.** *See* HANOVER.

**DAVID HARE TRA NING COLLEGE.** *See* CALCUTTA.

**DAYNAAND ANGLO-VEDIC COLLEGE.** *See* LAHORE.

**DEHRA DUN (India).**

**FOREST RESEARCH INSTITUTE AND COLLEGE,** Dehra Dun, United Provinces, India. (1881.)

*Terms* : Spring term (April and May) on tour; Rains term (July to October) at Dehra; Winter term (November to March) on tour.

*Students* : 30 admitted yearly, course of two years.

*President.*—W. F. Perrée, C.I.E., I.F.S., Conservator of Forests.

**Degrees.**—No degree conferred. Certificates with honours or ordinary are awarded to students according to proficiency to those who pass the qualifying tests.

Entrants into the College courses usually possess a degree in Science of some Indian University.

The course is intended solely for natives of India, but adjoining British possessions have also sent students to be trained at this Institute.



**Departments.**—The institution is entirely managed and supported by the Government of India with a view to developing the resources of Indian forests, and supplying a staff of officers, recruited and trained in India, to fill vacancies in the Provincial Forest Service.

**Lecturers, Instructors, etc.**—The educational work is conducted by two Instructors aided by two Assistant Instructors. In addition the experts in each branch of the Research Institute deliver a course of lectures, each in his own subject, to the students.

**Libraries.**—A well-equipped library, containing works of reference on forestry and cognate sciences, forms part of the Research Institute.

**Museums.**—Museums exhibiting specimens of interest in Forest Economics, Botany, Zoology, and Silviculture form part of the Institute.

## DELAWARE (Ohio).

OHIO WESLEYAN UNIVERSITY, Delaware, Ohio. (1842.)

*Terms* : Two semesters.

*Students* : 1,200.

### OFFICIALS.

*President.*—J. W. Hoffman, M.A., D.D., LL.D.

*Vice-President.*—R. T. Stevenson, D.D., Ph.D., LL.D.

*Dean of the College and Registrar.*—W. E. Smyser, M.A., Litt.D.

*Dean of Men.*—W. G. Hormell, Ph.D.

*Dean of Women and the Conservatory.*—C. B. Austin, M.A., D.D.

*Treasurer.*—B. E. Cartmell, B.A.

**Degrees conferred.**—B.A., M.A., M.S., D.D., LL.D., Ped.D.

### PROFESSORS.

#### Professors :

R. Parsons, *Greek*.

C. B. Austin, *Mathematics and Astronomy*.

W. W. Davies, *German and Hebrew*.

R. T. Stevenson, *American History*.

W. G. Hormell, *Physics*.

C. A. Nelson (Miss), *French*.

T. G. Duvall, *Philosophy*.

E. L. Rice, *Biology*.

R. H. Walker, *English Bible*.

L. G. Westgate, *Geology*.

W. E. Smyser, *English*.

G. O. Higley, *Chemistry*.

B. L. McElroy, *Applied Christianity*.

G. N. Armstrong, *Mathematics*.

R. B. Miller, *Biblical Literature*.

C. M. Newcomb, *Oratory*.

G. R. Wells, *Psychology*.

P. K. Holmes, *Physical Education*.

F. E. Wolfe, *Economics*.

B. A. Arneson, *Political Science*.

H. P. Ward, *Military Training*.

A. R. Mead, *Education*.

O. M. Buck, *Missions and Comparative Religion*.

D. N. Robinson, *Latin*.

H. P. Reeves, *Spanish*. [ology.]

J. H. Ashworth, *Economics and Soci-*

#### Associate Professors :

E. L. Konantz (Miss), *Mathematics*.

G. Stanley (Miss), *Latin*.

K. S. McLean, *Education*.

#### Libraries.—

Slocum Library. Monnett Library. *Librarian* : R. B. Miller.

#### Associate Professors—Continued :

C. A. Krummel, *German*.

C. E. O'Neal, *Botany*.

C. Walls (Miss), *Physical Education*.

H. W. Ewing „ „

#### Assistant Professors :

T. E. Steckel, *German*.

R. E. Jackson (Miss), *Oratory*.

M. Lewis (Miss), *Home Economics*.

A. F. Amy, *English*.

E. J. Beck, *Sociology*.

H. C. Hubbard, *History*.

T. P. Oakley „

C. C. Crump, *Astronomy*.

J. C. M. Grimm, *Latin*.

C. C. Peters, *Education*.

O. K. Boring, *French and Spanish*.

J. C. Hodges, *English*.

J. De L. Ferguson, *English*.

M. S. Allen, *English*.

C. H. Skinner, *Physics*.

16 Instructors, 2 Lecturers, 2 Fellows.

### SCHOOL OF MUSIC.

#### Professors :

H. Whitehouse, *Musical*.

J. W. Parker „

8 Instructors.

### SCHOOL OF FINE ARTS.

#### Professor :

C. A. Nelson (Miss), *Art History*.

4 Instructors.

## DELHI (India).

**ST. STEPHEN'S COLLEGE**, Kashmir Gate, Delhi. (1882.)

Affiliated to the University of the Punjab, Lahore.

*Terms* : Three a year.

*Students* : 240.

### OFFICIALS.

*Principal*.—S. K. Rudra, M.A.

*Vice-Principal*.—Rev. P. N. F. Young.

*Bursar*.—S. N. Mukerji, M.A.

### LECTURERS.

C. B. Young, *English*.

G. H. C. Sharp, „

W. F. Ireland, „

M. Sharp (Mrs.), *English*.

L. D. Shastri, *Sanskrit*.

A. Rahman, *Arabic*.

A. Ali, *Persian*.

S. H. Thomas, *Mathematics*.

S. N. Mukarji, *Mathematics*.

K. Ram, *Physics*.

J. N. Mitra, *Chemistry*.

N. K. Sen, *Philosophy*.

P. N. F. Young, *History*.

S. Bhattacharya, „

S. K. Rudra, *Economics*.

**HINDU COLLEGE**, Delhi, Punjab, India. (1899.)

Affiliated to the University of the Punjab, Lahore.

### OFFICIAL.

*Principal*.—N. V. Thadani, M.A.

**LADY HARDINGE MEDICAL COLLEGE**, Raisina, Delhi. (1916.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 100.

### OFFICIALS.

*Principal*.—Miss K. A. Platt, M.D.

*Superintendent of Nurses*.—Miss L. Mackenzie.

### PROFESSORS.

K. A. Platt (Miss), *Medicine*.

C. L. Houlton (Miss), *Gynecology and Midwifery*.

M. C. Murphy (Miss), *Anatomy*.

M. R. N. Holmer (Miss), *Physiology*.

H. M. Franklin (Miss), *Surgery*.

M. B. Stogden (Miss), *Pathology*.

A. M. Baia (Miss), *Chemistry*.

L. M. Hett (Miss), *Botany and Zoology*.

P. M. Borthwick (Miss), *Mathematics and Physics*.

2 Lecturers, 1 Demonstrator.

**RAMJAS COLLEGE**, Delhi, India. (1917.)

Affiliated to the University of the Punjab, Lahore.

### OFFICIALS.

*President*.—Rai Sahib Lala Kedar Nath, M.A.

*Principal*.—A. T. Gidvani, M.A.

### PROFESSORS.

A. T. Gidvani, *English and History*.

N. D. Gurbaxani, *Philosophy and History*.

L. D. Keswani, *English*.

K. Lal, *Mathematics and Sanskrit*.

2 Lecturers.

## DENVER (Colorado).

**UNIVERSITY OF DENVER**. No particulars received.

# DES MOINES (Iowa).

IOWA ACADEMY OF SCIENCE, Des Moines, Iowa.

## OFFICIALS.

*President.*—Prof. T. C. Stephens, Morningside College, Sioux City.

*First Vice-President.*—Prof. Nicholas Knight, Cornell College, Mt. Vernon.

*Second Vice-President.*—Prof. D. W. Morehouse, Drake University, Des Moines.

*Secretary.*—Dr. James H. Lees, Iowa Geological Survey.

*Treasurer.*—Prof. A. O. Thomas, State University, Iowa City.

The Academy holds a meeting each year in April. The papers presented at these meetings are published annually in the Proceedings of the Academy. Officers are elected for one year, although the Secretary and Treasurer are usually re-elected several times. There are six classes of members: Life Fellows, Fellows, Associates, Corresponding Fellows, Honorary Fellows, and Corresponding Associates. Fellows and Associates are elected from residents of Iowa. Fellows and Associates removing from the state become corresponding Fellows and Associates, respectively. Honorary Fellows are chosen from the distinguished scientists of this or other states.

**DIOCESAN TRAINING COLLEGE.** See **BALIGANI.**

**DROPSIE COLLEGE.** See **PHILADELPHIA.**

## DUBLIN (Ireland).

**TRINITY COLLEGE,** Dublin, Ireland. (1591.)  
(University of Dublin.)

The University of Dublin and Trinity College are for all practical purposes one and the same body, though each has its own seal. The University is a residential one.

The professional degrees are conferred only on those who have obtained the Bachelor of Arts degree, so that the Dublin degrees are a guarantee of a high general as well as a specialized education.

*Terms :* Three a year.

*Students :* 1,300.

## OFFICIALS.

*Visitor.*—The Chancellor, the Earl of Iveagh, K.P., G.C.V.O., F.R.S., LL.D.

*Provost.*—The Rt. Hon. and Most Rev. J. H. Bernard, D.D.

*Vice-Provost.*—Rev. T. T. Gray, M.A., S.F., T.C.D.

*Senior Lecturer.*—Rev. W. R. W. Roberts, D.D., S.F., T.C.D.

*Auditor.*—G. L. Cathcart, M.A., S.F., T.C.D.

*Public Orator.*—R. W. Tate, M.A.

*Bursar.*—L. C. Purser, Litt.D., S.F., T.C.D.

*Senior Dean and Catechist.*—F. A. Tarleton, LL.D., Sc.D., S.F., T.C.D.

*Senior Proctor.*—M. W. J. Fry, M.A., S.F., T.C.D.

*Registrar.*—E. P. Culverwell, M.A., S.F., T.C.D.

## Degrees conferred :

### Degrees.

		Hoods.
B.A.	- -	Black, lined with rabbit skin.
B.A.O.	- -	Black silk, lined olive.
B.Ch.	- -	
B.E.	- -	Black, lined with green.
B.Sc.	- -	Black silk, lined gold-coloured silk.
D.Litt.	- -	Scarlet cloth, lined white silk.
D.Sc.	- -	Scarlet cloth, lined blue silk.
LL.B.	- -	Black silk, faced white.
LL.D.	- -	Scarlet cloth, lined with pink silk.
M.A.	- -	Black silk, lined blue silk.
M.A.O.	- -	Black silk, lined and faced purple.
M.E.	- -	White silk, lined green.
M.B.	- -	Black silk, faced scarlet.
M.Ch.	- -	Red silk, lined white, faced blue.
M.D.	- -	Scarlet cloth, lined scarlet silk.
Mus.B.	- -	Blue silk, lined with rabbit skin.
Mus.D.	- -	White figured silk, lined rose-coloured satin.

## PROFESSORS.

## ARTS.

## Professors :

W. F. Trench, *English Literature*.  
 W. E. Thrift, *Natural Philosophy*.  
 W. A. Goligher, *Ancient History and Classical Archeology*.  
 W. A. Philips, *Modern History*.  
 C. F. Bastable, *Political Economy*.  
 H. S. Macran, *Moral Philosophy*.  
 R. M. Gwynn, *Biblical Greek*.  
 T. F. O'Rahilly, *Irish*.  
 Sir L. W. King, *Arabic and Hindustani*.  
 H. Canning, *Sanskrit*.  
 J. V. S. Pope, *Modern East Indian Languages*.  
 (Vacant), *Education*.  
 P. C. Buck, *Music*.  
 G. Waterhouse, *German*.  
 T. D. Rudmoss-Brown, *Romance Languages*.  
 J. G. Smyley, *Greek*.  
 E. Curtis, *Modern History*.  
 G. Wilkins, *Hebrew*.

## Junior Fellows who Lecture in Arts:

R. Russell.  
 M. W. J. Fry.  
 G. Wilkins.  
 H. S. Macran.  
 E. J. Gwynn, *Junior Bursar*.  
 G. A. Exham.  
 W. E. Thrift.  
 J. G. Smyley.  
 G. W. Mooney.  
 W. Kennedy.  
 R. A. P. Rogers.  
 W. A. Goligher.  
 J. Frazer.  
 E. H. Alton.  
 R. M. Gwynn, *Hon. Chaplain*.  
 G. R. Webb.  
 R. W. Tate, *Junior Dean*.  
 H. Thrift.  
 H. Canning.  
 A. A. Luce.  
 J. Johnston.  
 J. M. Henry.  
 F. La Touche Godfrey.  
 J. Joly.

## Readers :

J. V. S. Pope, *Tamil, Burmese, Hindu, Bengali, and Marathi*.  
 Sir L. W. King, *Indian History*.

## Lecturers :

R. W. Tate, *Classical Composition*.  
 E. J. Gwynn, *Celtic Languages*.  
 G. Waterhouse, *Anglo-Saxon*.  
 E. Deane (Miss), *French*.  
 R. W. Tate, *Russian*.  
 T. B. Rudmoss-Brown, *Spanish and T. Johnston, Ancient History*.  
 C. E. Maxwell (Miss), *Modern History*.  
 J. M. Henry, *Education*.

## SCIENCE.

## Professors :

H. C. Plummer, *Astronomy*.  
 S. Young, *Chemistry*.  
 H. H. Dixon, *Botany*.  
 E. A. Werner, *Applied Chemistry*.  
 J. Joly, *Geology and Mineralogy*.  
 M. W. J. Fry, *Natural Philosophy*.  
 R. Russell, *Mathematics*.

## Lecturers :

R. A. F. Rogers, *Mathematics*.  
 C. H. Rowe  
 J. L. Synge  
 H. Thrift, *Experimental Science*.  
 H. H. Poole  
 W. C. Ramsden, *Chemistry*.  
 W. R. G. Atkins, *Botany*.  
 L. B. Smythe, *Geology and Paleontology*.  
 J. R. Cotter

## Professors :

## LAW.

C. F. Bastable, *Civil Law*.  
 J. S. Baxter, *Feudal and English Law*.  
 W. Lowry, *Penal Law*.

## MEDICINE AND DENTISTRY.

## Professors :

J. M. Purser, *Physic*.  
 E. H. Taylor, *Surgery*.  
 A. F. Dixon, *Anatomy and Surgery*.  
 T. E. Gordon, *Surgery*.  
 H. W. Mackintosh, *Comparative Anatomy and Zoology*.  
 E. H. Taylor, *University Anatomist*.  
 J. Craig, *Medicine*.  
 W. G. Smith, *Materia Medica*.  
 H. Pringle, *Physiology*.  
 T. H. Wilson, *Midwifery*.  
 A. Slotees, *Bacteriology and Preventive Medicine*.  
 Sir R. H. Woods, *Laryngology and W. Beatty, Dermatology (Hon.)*.

## Lecturers :

A. C. O'Sullivan, *Pathology*.  
 A. W. W. Baker, *Dental Surgery and Pathology*.  
 J. Cockburn, *Dental Mechanics*.  
 E. S. Friel, *Orthodontia*.  
 T. P. C. Kirkpatrick, *Anæsthetics*.  
 Col. G. Holmes, *Ophthalmology*.

## Lecturer :

H. T. Bewley, *Medical Jurisprudence*.

## ENGINEERING.

## Professor :

T. Alexander.

## Lecturers :

J. Frazer, *Mechanics*.  
 J. T. Jackson, *Civil Engineering*.  
 W. E. Lilly, *Mechanical Engineering*.  
 G. M. Harris, *Electric Traction*.  
 W. Tatlow, *Electrical Engineering*.



# THEOLOGY.

## Professors :

Rev. H. A. McNeile, *Divinity* (Regius).  
 J. G. F. Day, *Pastoral Theology*.  
 Rev. H. J. Lawlor, *Ecclesiastical History*.

## Professors—Continued :

N. J. White, *Divinity* (King's).

## Lecturers :

J. A. Jennings, *Elocution*.  
 Rev. R. M. Gwynn, *Divinity*.  
 Rev. A. A. Luce „

## Post-Graduate Courses.—In all departments.

**Library.**—The Library is continually increased by copies of every book published in England. This privilege it enjoys by Act of Parliament, 54 Geo. III., cap. 156. The number of volumes, including MSS., is over 360,000.

The Lecky Library, presented to Trinity College by Mrs. Lecky, consists of about 6,000 volumes, and the books may be lent to students on the recommendation of the Professors. There is also a lending library, which contains a number of volumes intended for the use of students. *Librarian* : J. G. Smyly, Litt.D.

**Museums.**—There is a large museum of Geology and Mineralogy, and another of Anatomy and Zoology, and there are Departmental Museums in connection with the Medical and Engineering School.

The Astronomical Observatory of Dunswick is owned and supported by the College.

There are several Student Societies, the College Historical Society being the most renowned; it is a reconstruction of the Debating Club founded by Edmund Burke in 1747.

## AFFILIATED INSTITUTION.

McCrea Magee College, Londonderry.

## NATIONAL UNIVERSITY OF IRELAND, Dublin, Ireland. (1909.)

Constituent Colleges: University College, Dublin; University College, Cork; University College, Galway.

*Terms* : Three a year.

## OFFICIALS.

*Chancellor.*—His Grace the Most Rev. W. J. Walsh, D.D., Archbishop of Dublin.  
*Vice-Chancellor.*—D. G. Coffey, M.A., M.B., B.Ch., B.A.O., LL.D., President University College, Dublin.

*Registrar.*—Sir Joseph McGrath, LL.D.

## Degrees conferred :

### Degrees.

Bachelor	-	Dark green Irish poplin, lined throughout with poplin of faculty colour.
B.D.S.	-	Which is lined with silver grey, edge to have one inch scarlet.
Master	-	Dark green Irish poplin, lined white poplin edged with three inches of poplin of faculty colour.
M.A.	-	Lined white, edged three inches blue.
M.A.O.	-	Lined white, edged three inches scarlet, one inch gold.
M.D.S.	-	Lined white, three inches silver grey, one inch scarlet.
M.Sc.P.H.	-	Lined white, edge 3 inches silver lilac, one inch scarlet.
Doctor	-	Dark green Irish poplin, lined throughout with poplin of faculty colour.

**Professor** : Rev. Peter Finley, *Catholic Theology*.

## UNIVERSITY COLLEGE, Dublin, Ireland. (1850.)

*Terms* : Three a year.

## OFFICIALS.

*President.*—D. J. Coffey, M.A., M.B., B.Ch., B.A.O., LL.D.

*Registrar.*—A. W. Conway, M.A., D.Sc., F.R.S.

*Secretary and Bursar.*—J. W. Bacon, M.A.

*Librarian.*—J. J. O'Neill.

**Degrees conferred** (by the National University of Ireland).—B.A., B.Mus., M.A., D.Litt., D.Mus., D.Litt.Celt. (Doctor of Celtic Studies), B.Sc., B.Agr.Sc., M.Sc., M.Agr.Sc., D.Sc., LL.B., LL.D., M.B., B.Ch., B.A.O. (Bachelor of Obstetrics), B.Sc., Pub. Health, M.Ch., M.A.O., M.D., D.Sc., Pub. Health, B.D.S. (Bachelor of Dental Surgery), M.D.S., B.E., B.Arch., M.E., M.Arch., B.Comm., M.Comm., Ph.D.

## PROFESSORS.

## Professors :

- Rev. H. Browne, *Greek*.  
 P. Semple, *Latin*.  
 H. C. M'Weeney, *Mathematics*.  
 R. Donovan, *English Literature*.  
 Rev. G. O'Neill, *English Language and Philology*.  
 R. Chauvire, *French and Romance Philology*.  
 J. M. O'Sullivan, *History*.  
 Rev. T. Corcoran, *Theory and Practice of Education*.  
 Rev. M. Cronin, *Ethics and Politics*.  
 Rev. J. Shine, *Logic and Psychology*.  
 W. Magennis, *Metaphysics*.  
 R. A. Stewart Macalister, *Celtic Archeology*.  
 O. Bergin, *Early and Medieval Irish*.  
 D. Hyde, *Modern Irish Language and Literature*.  
 J. McNeill, *Early, including Medieval Irish, History*.  
 H. Ryan, *Chemistry*.  
 H. J. Seymour, *Geology*.  
 J. A. McClelland, *Experimental Physics*.  
 A. W. Conway, *Mathematical Physics*.  
 G. Sigerson, *Zoology*.  
 E. P. M'Loughlin, *Anatomy*.  
 B. J. Collingwood, *Physiology and Histology*.  
 E. J. M'Weeney, *Pathology and Bacteriology*.  
 J. N. Meenan, *Hygiene and Medical Jurisprudence*.  
 M. Dempsey, *Materia Medica and Therapeutics*.  
 J. F. O'Carroll, *Medicine*.

## Professors—Continued :

- A. J. Smith, *Midwifery and Gynecology*.  
 J. S. M'Ardle, *Surgery*.  
 J. A. Murnaghan, *Jurisprudence and Roman Law*.  
 J. G. S. MacNeill, *Constitutional Law and the Law of Public and Private Wrongs, and Law of Evidence*.  
 A. E. Clery, *The Law of Property and the Law of Contracts*.  
 P. F. Purcell, *Civil Engineering*.  
 C. H. Oldham, *National Economics of Ireland*.  
 Rev. T. A. Finlay, *Political Economy*.  
 W. A. Scott, *Architecture*.  
 B. F. Shields, *Commerce*.  
 M. M. Macken (Mrs.), *German*.  
 J. B. Butler, *Botany*.  
 M. T. Hayden (Miss), *Modern Irish History*.  
 L. Werner, *Ophthalmology*.  
 J. I. Potter, *Dental Mechanics*.  
 E. Sheridan, *Dental Surgery*.  
 M. Degani (Miss), *Italian and Spanish*.  
 Rev. P. Boylan, *Eastern Languages*.  
 J. L. Jones, *Welsh*.  
 C. H. Kitson, *Music*.  
 R. O'Dwyer, *Irish Music*.

## Lecturers :

- D. O'Connor, *Accountancy*.  
 F. L. Leet, *Banking and Finance*.  
 J. J. Dowling, *Experimental Physics*.  
 Rev. M. F. Egan, *Pure Mathematics*.  
 W. M. Crofton, *Special Pathology*.  
 A. M. W. O'Farrelly (Miss), *Irish Language*.  
 J. J. Webb, *Municipal History*.

ROYAL COLLEGE OF PHYSICIANS OF IRELAND, 6, Kildare Street, Dublin.  
 (1654.)

## OFFICIALS.

- President*.—James Craig, M.D.  
*Vice-President*.—Alfred Parsons, M.D.  
*Censors*.—S. T. Gordon, F.R.C.P.I.; A. R. Parsons, M.D.; S. Sheill, F.R.C.P.I.; W. Boxwell, M.D.  
*Registrar*.—T. P. C. Kirkpatrick, M.D.  
*Treasurer*.—Henry T. Bewley, M.D.

Degrees conferred.—F.R.C.P.I., M.R.C.P.I., L.R.C.P.I., L.M.R.C.P.I., D.P.H.R.C.P. and S.I.

## Robes.—

- For Licentiates: B.A. Gown with 3-inch facings of Czar violet poplin silk.  
 For Members: M.A. Gown with 4-inch facing, and collar of Czar violet poplin silk.  
 For Fellows: M.D. Gown in black velveteen with purple collar and facings; the latter to be 9 inches in width—i.e., 4½ inches showing.  
 In the case of University Graduates, the hood of the respective degrees to be also worn on special occasions.

PROFESSORS.

SCHOOL OF PHYSIC.

King's Professors :

J. Craig, *Practice of Medicine*.  
W. G. Smith, *Materia Medica and Pharmacy*.  
T. H. Wilson, *Midwifery*.  
H. Pringle, *Institutes of Medicine*.

SCHOOL OF SURGERY.

Professors :

F. C. Purser, *Medicine*.  
E. H. Tweedy, *Midwifery*.  
R. T. Smith, *Materia Medica, Therapeutics and Pharmacy*.

**Library.**—Library founded under the will of the late Sir Patrick Dun, M.D., Physician General to the Army in Ireland, in the year 1713. Lending and Reference Library, about 13,000 volumes. *Librarian* : Robert Phelps.

ROYAL COLLEGE OF SCIENCE FOR IRELAND, Merion Street, Dublin. (1845.)

*Terms* : Three per year.

OFFICIALS.

*Dean.*—H. H. Jeffcott, B.A.I., M.I.Mech.E.

*Registrar.*—P. A. E. Dowling, B.A., B.Sc.

**Degrees conferred.**—A.R.C.Sc.I. and F.R.C.Sc.I.

PROFESSORS.

J. Wilson, *Agriculture*.  
A. Henry, *Forestry*.  
T. Johnson, *Botany*.  
W. E. Adeney, *Chemistry*.  
G. A. J. Cole, *Geology*.

H. H. Jeffcott, *Engineering*.  
W. McF. Orr, *Mathematics*.  
G. H. Carpenter, *Zoology*.  
W. Brown, *Physics*.

6 Lecturers, 6 Demonstrators, and 7 Assistant Demonstrators.

The Academic Costume for Associates is a Bachelor's gown of black stuff, a Graduate's cap, and a hood of purple Irish poplin, lined with St. Patrick's blue; the neck-band of Irish poplin edged with St. Patrick's blue; the faculty or group of courses in which the Associateship has been obtained is indicated by the colour of the neck-band as follows: green, Faculty of Agriculture; blue, Faculty of Applied Chemistry; grey, Faculty of Engineering; and purple, Science Teachers' Courses.

The Academic Costume for Fellows is a Doctor's gown of black silk or poplin, with purple facings, saffron buttons, and St. Patrick's blue loops; a cap of beef-eater type, with a cord of St. Patrick's blue and saffron twisted; and a hood as for Associates, except that the neck-band is of saffron, edged with St. Patrick's blue.

**Societies.**—Students' Union, Scientific and Debating Society, Agricultural Debating Society, Chemical Society, Engineering Society.

The Library contains 25,000 volumes, 10,000 pamphlets, and many maps. *Librarian* : J. Condon.

ROYAL DUBLIN SOCIETY, Leinster House, Dublin. (1731.)

OFFICIALS.

*President.*—Rt. Hon. Lord Rathdonnell.

*Honorary Secretaries.*—Sir Joseph McGrath; Bertram H. Barton.

*Registrar.*—Richard J. Moss.

*Agricultural Superintendent.*—Edward Bohane.

*Librarian and Editor of Scientific Publications.*—Arthur H. Foord.

Library, about 50,000 volumes.

**Publications.**—

"Transactions" (chiefly agricultural), Vol. I.-VI., 1799-1810 (out of print).

"Journal," Vol. I.-VII. (the last), 1856-1876, 8vo.

"Scientific Transactions" (Ser. II.), Vol. I.-IX. (the last), 1877-1908, 4to.

"Scientific Proceedings," Vol. I.-XV. (in progress), 1877-1919, 8vo.

"Economic Proceedings," Vol. I.-II. (in progress), 1899-1919, 8vo.

**ROYAL IRISH ACADEMY**, 19, Dawson Street, Dublin. (1785.)

#### OFFICERS.

*President*.—Right Hon. and Most Rev. J. H. Bernard, D.D., D.C.L.,

Provost of Trinity College, Dublin.

*Treasurer*.—Rev. W. R. W. Roberts, D.D.

*Secretary*.—J. A. McClelland, Sc.D., F.R.S.

*Secretary of Council*.—Rev. H. J. Lawlor, D.D., Litt.D.

*Librarian*.—R. Ll. Praeger, B.E.

*Secretary for Foreign Correspondence*.—E. J. Gwynn, M.A.

*Resident Secretary*.—R. Macalister, M.A., LL.D.

**Membership**.—Not more than seven Members can be elected in one year, at the stated meeting in March.

#### **Publications.**—

The Academy's Publications include "Transactions" (Vols. I.-XXXIII.),

"Proceedings" (Vols. I.-XXXV.) in three sections.

Section A: Mathematical, Astronomical, and Physical Sciences.

Section B: Biological, Geological, and Chemical Sciences.

Section C: Archeology, Linguistic, and Literature.

Also Cunningham Memoirs (Vols. I.-XI.), Todd Lecture Series (Vols. I.-XVII.), Irish Facsimiles (Folio).

**PHARMACEUTICAL SOCIETY OF IRELAND**, 67, Lower Mount Street, Dublin. (1875.)

*Registrar*.—A. T. Ferrall.

*Head of Chemistry School*.—Prof. H. Normenton.

*Head of Botany School*.—W. H. Hopkins Ashmore.

*Head of Materia Medica School*.—P. O'Connor.

### **DUNEDIN (New Zealand).**

**UNIVERSITY OF OTAGO**, Dunedin, New Zealand. (1869.)

An affiliated Institution of the University of New Zealand (*q.v.*).

*Terms*: Three per year.

**OFFICIALS.** See **NEW ZEALAND UNIVERSITY.**

**Degrees and Hoods.**—See **NEW ZEALAND UNIVERSITY.**

#### PROFESSORS.

##### **Professors :**

T. Gilray, *English Language and Literature*.

W. B. Benham, *Biology*. [*tute.*]

J. Park, *Mining and Mine and Land*

*Surveying* (and Director of School of Mines).

J. Malcolm, *Physiology*.

(Vacant), *Pure and Applied Mathematics*.

H. P. Pickerrill, *Dentistry* (and Director of Dental School).

(Vacant), *Practice of Medicine*.

H. L. Ferguson, *Ophthalmology* (and Dean of Medical Faculty).

(Vacant), *Medical Jurisprudence*.

L. E. Barnett, *Surgery*.

D. B. Waters, *Metallurgy and Assaying*.

W. L. Boys-Smith (Miss), *Home Science and Domestic Arts*.

J. K. H. Inglis, *Chemistry*.

##### **Professors—Continued :**

S. T. Champtaloup, *Bacteriology and Public Health*.

R. Jack, *Natural Philosophy*.

F. W. Dunlop, *Mental and Moral Philosophy*.

W. P. Gowland, *Anatomy*.

A. M. Drennan, *Pathology*.

(Vacant), *Economics and History*.

G. E. Thompson, *Modern Languages*.

W. N. Benson, *Geology and Mineralogy*.

T. D. Adams, *Classics*.

##### **Lecturers :**

F. Truby King, *Mental Diseases*.

M. Watt, *Hebrew*.

W. G. Hay, *Jurisprudence*.

W. Newlands, *Surgery*.

F. R. Riley, *Midwifery and Gynecology*.

F. W. B. Fitchett, *Materia Medica*.

J. Lang, *Constitutional History*.



**Lecturers—Continued :**

- A. A. Finch, *Property, Part I.*  
 C. G. White, *Procedure and Property, Part II.*  
 J. B. Calan, *Torts.*  
 C. N. Scurr, *Criminal Law.*  
 A. C. Stephens, *Contracts.*  
 H. S. Adams, *Evidence.*  
 G. H. Rawson, *Household Economics, Applied Chemistry, etc.*

**Lecturers—Continued :**

- G. W. Reid, *Accountancy.*  
 E. Pinder, *Education.*  
 E. H. Williams, *Diseases of Children.*  
 A. J. Hall, *Ear, Nose, and Throat.*  
 The Honorary Staff of the Dunedin Hospital, *Clinical Medical and Clinical Surgery.*  
 6 Assistants, 2 Tutors.

**DURHAM.**

**UNIVERSITY OF DURHAM**, Durham, England. (1832.)

Including: Durham Colleges at Durham.  
 College of Medicine at Newcastle-on-Tyne.  
 Armstrong College at Newcastle-on-Tyne.

*Terms* : Three per year.

*Students* : 1,498.

**OFFICIALS.**

*Chancellor.*—The Right Hon. The Earl of Durham, K.G., G.C.V.O., D.C.L.

*Vice-Chancellor.*—David Drummond, M.A., D.C.L.

*Pro-Vice-Chancellors.*—

J. S. G. Pemberton, M.A., D.C.L.; Sir T. Morrison, K.C.S.I., K.C.I.E., M.A.;  
 F. B. Jevons, M.A., D.Litt.

*Registrar.*—H. G. Theodosius, M.A., B. es L.

*Treasurer.*—F. W. Ritson, M.A.

**Degrees conferred :**

*Degrees.*

*Hoods.*

- |         |   |   |
|---------|---|---|
| D.D.    | - | Scarlet cassimere, lined with palatinate purple silk.   |
| B.D.    | - | Black corded silk, lined with black silk.   |
| M.A.    | - | Black silk, lined with palatinate purple silk.  |
| B.A.    | - | Black stuff, trimmed with white fur.  |
| D.C.L.  | - | Scarlet cassimere, lined with white silk.   |
| B.C.L.  | - | Palatinate purple silk, bound with white fur.   |
| M.D.    | - | Scarlet cassimere, lined with scarlet silk, faced with palatinate purple silk.                                      |
| M.B.    | - | Scarlet silk, lined with palatinate purple silk, and bound with white fur.  |
| M.S.    | - | Rose silk, lined with palatinate purple silk.   |
| B.S.    | - | Rose silk, lined with palatinate purple silk, bound with white fur.   |
| D.Hy.   | - | Scarlet cloth, lined with scarlet silk, faced with palatinate purple and white silk.                                |
| B.Hy.   | - | Black silk, faced with palatinate purple and scarlet silk, and bound with white fur.                                |
| D.Sc.   | - | Palatinate purple cassimere, lined with scarlet silk.   |
| M.Sc.   | - | Black silk, lined with palatinate purple silk, and bound with scarlet silk half an inch wide both sides.            |
| B.Sc.   | - | Palatinate purple silk, bound with white fur, and with a scarlet band half an inch wide next to the fur.            |
| D.Litt. | - | Scarlet cassimere, lined with old gold satin.   |
| M.Litt. | - | Black corded silk, lined with old gold satin.   |
| B.Litt. | - | Old gold satin, edged with fur.   |
| Mus.D.  | - | Brocaded white satin, lined with palatinate purple silk.  |
| Mus.B.  | - | Palatinate purple silk, bound with brocaded white satin one inch wide.  |
| M.Com.  | - | Black silk, lined with cerise silk.   |
| B.Com.  | - | Black silk, lined with cerise silk, and edged with white fur.   |
| L.Th.   | - | Black stuff, faced with velvet, and bound with palatinate purple silk, quarter-inch wide, and velvet one inch wide. |
| Ph.D.   | - | Scarlet cassimere, lined with scarlet silk and bound on all edges with palatinate silk one inch wide.               |

## PROFESSORS.

**DURHAM COLLEGES.****Professors :**

- Rev. D. Walker, *Divinity and Ecclesiastical History*.  
 Rev. H. Cruickshank, *Greek and Classical Literature*.  
 P. J. Heawood, *Mathematics*.  
 Ven. H. W. Watkins, *Hebrew*.  
 F. B. Jevons, *Philosophy*.  
 Rev. H. Ellershaw, *English Language and Literature*.  
 Rev. J. H. How, *Latin*.  
 A. Robinson, *Logic and Psychology*.  
 C. F. Herdener, *Modern Languages*.  
 J. C. Bridge, *Music*.

**Lecturers :**

- J. L. Burchnall, *Mathematics*.  
 (Vacant), *History*.  
 Rev. E. G. Pace, *Theology and Hebrew*.  
 W. D. Lowe, *Classics*.  
 (Vacant), *Education*.  
 C. L. Wrenn, *English*.  
 (Vacant), *Economics*.  
 Captain A. A. Macfarlane-Grieve, *Military Science*.  
 F. Sargent, *Astronomy and Observer*.

**COLLEGE OF MEDICINE.****Professors :**

- D. Drummond, *Principles and Practice of Medicine*.  
 Sir Thomas Oliver, *Principles and Practice of Medicine*.  
 J. Middlemass, *Psychological Medicine*.  
 J. R. Morrison, *Surgery*.  
 H. B. Angus  
 R. P. R. Lyle, *Midwifery and Gynecology*.  
 J. D. Wardale, *Ophthalmology*.  
 T. Beattie, *Therapeutics*.  
 S. McDonald, *Pathology and Clinical Pathology*.  
 H. J. Hutchens, *Comparative Pathology and Bacteriology*.  
 R. A. Bolam, *Medical Jurisprudence*.  
 T. E. Hill, *Public Health*.  
 W. E. Hume, *Materia Medica and Pharmacology*.  
 R. Howden, *Anatomy*.  
 J. A. Menzies, *Physiology*.

**Post-Graduate Courses.**—Doctor of Philosophy (Ph.D.), Bachelor of Divinity (B.D.), Diploma in Theology (Dip.Th.), Diploma in Public Health (D.P.H.), Diploma in the Theory and Practice of Teaching (D.Th.P.T.).

**Libraries.**—38,000 volumes, including Lightfoot, Maltby, Routh and Winterbottom collections. *University Librarian* : E. V. Stocks.

**AFFILIATED INSTITUTIONS.**

Codrington College, Barbados.  
 Fourah Bay College, Sierra Leone.

**Lecturers :**

- G. G. Turner, *Surgery*.  
 S. S. Whillis, *Diseases of the Throat, Nose, and Ear*.  
 R. A. Bolam, *Diseases of the Skin and Clinical Dermatology*.  
 O. W. Ogden, *Diseases of Children*.  
 F. H. A. Clayton, *Comparative Pathology and Bacteriology*.  
 J. Clay, *Applied Anatomy*.

**ARMSTRONG COLLEGE.****Professors :**

- C. M. Jessop, *Mathematics*.  
 T. H. Havelock, *Applied Mathematics and Mathematical Physics*.  
 H. Stroud, *Physics*.  
 P. P. Bedson, *Chemistry*.  
 S. Smiles, *Organic Chemistry*.  
 T. F. Sibly, *Geology*.  
 A. Meek, *Zoology*.  
 M. C. Potter, *Botany*. [Economy.  
 D. A. Gilchrist, *Agriculture and Rural*  
 R. L. Weighton, *Engineering*.  
 J. J. Welch, *Naval Architecture*.  
 W. M. Thornton, *Electrical Engineering*.  
 H. Louis, M.A., *Mining and Surveying*.  
 J. W. Duff, *Classics and Ancient History*. [Literature.  
 A. Mawer, *English Language and*  
 K. H. Vickers, *Modern History*.  
 T. Loveday, *Mental and Moral Philosophy*.  
 A. G. Latham, *Modern Languages*.  
 H. M. Hallsworth, *Economics*.  
 M. R. Wright, *Education*.  
 R. G. Hatton, *Fine Art*.

**Lecturers :**

- G. W. Caunt, *Mathematics*.  
 H. Morris-Airey, *Physics*.  
 F. C. Garrett, *Chemistry*.  
 J. A. Smythe  
 D. Woolacott, *Geology*.  
 A. D. Peacock, *Zoology*.  
 S. Mangham, *Botany*.  
 F. P. Walter, *Agriculture*.  
 J. Morrow, *Engineering*.  
 W. W. Firth, *Electrical Engineering*.  
 F. H. Alexander, *Naval Architecture*.  
 H. Dean, *Mining and Surveying*.  
 S. Wragge (Miss), *English Literature*.  
 G. H. Thomson, *Education*.

**DURHAM (New Hampshire).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. C. Kendall.

**DYAL SINGH COLLEGE.** See LAHORE.

**EAST LANSING (Michigan).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—R. S. Shaw.

**EASTON (Pennsylvania).**

**LAFAYETTE COLLEGE,** Easton, Pa. (1832.)

*Terms :* Two per year.

*Budget :* 1917-18, \$153,912. 66

*Students :* 1916-17, 634; 1917-18, 448; 1918-19, 462; 1919-20, 704.

**OFFICIALS.**

*President.*—John H. MacCracken, Ph.D., LL.D.

*Dean of the College.*—Albert K. Heckel, Ph.D.

*Dean of the Pardee Scientific Department.*—Edward Hart, Ph.D.

*Registrar.*—W. Mackay Smith, Ph.D.

*Bursar.*—Albert M. Lane, Ph.B.

*Clerk of the Faculty.*—William S. Hall.

**Degrees conferred.**—A.B., B.S., B.S. in Civil Engineering, B.S. in Chemical Engineering, B.S. in Electrical Engineering, B.S. in Mechanical Engineering, B.S. in Mining Engineering, B.S. in Chemistry.

Two-year pre-medical course not leading to a degree.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

F. A. March, jr., *English Language.*

J. W. Tupper, *English Literature.*

E. M. Rankin, *Greek.* [ophy.

S. A. Martin, *Mental and Moral Philos.*

C. D. Fehr, *Modern Languages.*

A. K. Heckel, *History.*

J. H. S. Bossard, *Government and Eco-*

H. McA. Robinson, *Bible.* [nomics.

J. R. Crawford, *Latin.*

**Assistant Professor :**

J. B. Hopkins, *Romance Languages.*

**FACULTY OF SCIENCE.**

**Professors :**

W. S. Hall, *Mathematics.*

E. M. Green, *Consulting Physician, Department of Physical Training.*

F. B. Peck, *Mineralogy and Geology.*

C. McC. Gordon, *Physics.*

W. M. Smith, *Mathematics.*

B. W. Kunkel, *Biology.*

E. C. Bingham, *Chemistry.* [Tactics.

W. F. Fos, *Military Science and*

**Associate Professors :**

J. H. Wilson, *Chemistry.*

H. C. Chapin, *Chemistry.*

**Assistant Professors :**

W. T. Foster, *Biology.*

D. A. Hatch, *Mathematics.*

J. H. DeLong, *Chemistry.*

H. J. Lockwood, *Physics.*

J. Cawley, *Mathematics.*

**FACULTY OF ENGINEERING.**

**Professors :**

E. Hart, *Chemical Engineering.*

A. H. Fuller, *Civil Engineering.*

D. B. Prentice, *Mechanical Engineering.*

**Assistant Professors :**

W. B. Marquard, *Mining Engineering.*

H. T. Spengler, *Surveying and Railroad Engineering.*

H. M. Spandau, *Drawing.*

F. G. Allen, *Electrical Engineering.*

H. S. Roger, *Civil Engineering.*

R. S. Wilbur, *Mechanical Engineering.*

13 Instructors and a Director of Physical Training.

**Post-Graduate Courses.**—A.M., M.S.

**Libraries.**—

Van Wickle Library, 45,000 volumes.

Oliver Library, 2,500 volumes.

Literary Societies, 5,000 volumes.

## EDINBURGH.

**UNIVERSITY OF EDINBURGH, Edinburgh. (1583.)**

*Terms* : Three per year.

*Students* (1918-19) : 3,554.

### OFFICIALS.

*Chancellor*.—Right Hon. Arthur J. Balfour, M.P., D.C.L., LL.D.

*Vice-Chancellor and Principal*.—Sir James A. Ewing, K.C.B., M.A., LL.D.

*Secretary*.—William Wilson, M.A., LL.B., Advocate.

### Degrees conferred :

#### *Degrees.*

LL.D.	-	-	Black cloth, with appended cape, lined with blue silk.
LL.B.	-	-	Black silk, lined with blue silk, bordered with white fur.
B.L.	-	-	Black silk, edged with blue silk three inches broad, trimmed with white fur.
D.D.	-	-	Black cloth, lined with purple silk.
B.D.	-	-	Black silk, lined with purple silk, bordered with white fur.
M.D.	-	-	Black cloth, with appended cape, lined and faced with crimson silk.
Ch.M.	-	-	Black velvet, lined with golden silk.
M.B. and Ch.B.	-	-	Black silk, lined with crimson silk, bordered with white fur.
D.Sc.	-	-	Black cloth, lined with green silk.
B.Sc.	-	-	Black silk, lined with green silk, bordered with white fur.
M.A.	-	-	Black silk, lined with white silk.
D.Litt.	-	-	Black cloth, lined with royal blue and maize shot silk.
D.Phil.	-	-	Black cloth, lined with Vesuvius and white shot silk.
Mus.D.	-	-	Rich scarlet cloth, with rich white corded silk lining.
Mus.B.	-	-	Scarlet silk, with white silk lining, edged with white fur.
Ed.B.	-	-	Black silk, lined with pale blue silk, edged with white fur.
B.Com.	-	-	Black Silk, lined with pale primrose yellow silk, edged with white fur.

#### *Hoods.*

### PROFESSORS.

#### FACULTY OF ARTS.

##### **Professors :**

- H. J. C. Grierson, *Rhetoric and English Literature*.  
O. L. Richmond, *Humanity*.  
A. W. Mair, *Greek*.  
A. B. Keith, *Sanskrit and Comparative Philology*.  
W. J. Watson, *Celtic Languages, Literature, History, and Antiquities*.  
C. Sarolea, *French*.  
E. T. Whittaker, *German*.  
C. G. Barkle, *German*.  
N. K. Smith, *Logic and Metaphysics*.  
J. Seth, *Moral Philosophy*.  
Sir R. Lodge, *History*.  
R. K. Hannay, *Ancient History and Paleography*.  
J. S. Nicholson, *Commercial and Political Economy and Mercantile Law*.  
G. B. Brown, *Fine Art*.  
A. Darroch, *Theory, History, and Practice of Education*.

#### FACULTY OF SCIENCE.

##### **Professors :**

- E. T. Whittaker, *Mathematics*.  
C. G. Barkla, *Natural Philosophy*.

##### **Professors—Continued :**

- R. A. Sampson, *Astronomy*.  
J. Walker, *Chemistry*.  
J. S. Ewart, *Natural History*.  
I. B. Balfour, *Botany*.  
T. J. Jehu, *Geology*.  
T. H. Beare, *Engineering*.  
R. Wallace, *Agriculture and Rural Economy*.

#### FACULTY OF DIVINITY.

##### **Professors :**

- W. P. Paterson, *Divinity*.  
W. A. Curtis, *Biblical Criticism and Biblical Antiquities*.  
J. Mackinnon, *Ecclesiastical History*.  
A. R. S. Kennedy, *Hebrew and Semitic Languages*.

#### FACULTY OF LAW.

##### **Professors :**

- Sir L. J. Grant, *Public Law*.  
J. Mackintosh, *Civil Law*.  
J. H. Millar, *Constitutional Law and Constitutional History*.  
J. Rankine, *Scots Law*.  
J. L. Mounsey, *Conveyancing*.



# FACULTY OF MEDICINE.

## Professors :

- G. Barger, *Chemistry in Relation to Medicine.*  
 A. Robinson, *Anatomy*  
 Sir A. E. S. Schafer, *Physiology.*  
 J. L. Smith, *Pathology.*  
 A. R. Cushny, *Materia Medica.*  
 G. L. Gulland, *Medicine.*  
 H. A. Thomson, *Surgery.*  
 Sir J. H. Croom, *Midwifery.*  
 H. Littlejohn, *Forensic Medicine.*  
 Sir H. Stiles, *Clinical Surgery.*  
 G. L. Gulland, *Clinical Medicine.*  
 J. C. Meakins, *Clinical Medicine.*  
 F. D. Boyd, *Clinical Medicine.*  
 C. H. Stewart, *Public Health.*  
 J. Ritchie, *Bacteriology.*  
 Sir R. W. Philip, *Tuberculosis.*  
 J. C. Meakins, *Therapeutics.*

## LECTURERS.

### Lecturers :

- A. B. Webster, *Rhetoric and English Literature.*  
 G. Kitchin, *Rhetoric and English Literature.*  
 B. Dickins, *Rhetoric and English Literature.*  
 J. Mill, *Latin.*  
 J. F. Mountford, *Latin.*  
 (Vacant), *Greek.*  
 E. Robertson, *Arabic.*  
 C. Tweedie, *Mathematics.*  
 E. M. Horsburgh, *Mathematics.*  
 D. Gibb, *Mathematics.*  
 R. W. Brink, *Mathematics.*  
 G. Smeal, *Mathematics.*  
 A. E. Sprague, *Actuarial Science.*  
 C. G. Knott, *Applied Mathematics.*  
 G. A. Carse, *Natural Philosophy.*  
 J. R. Milne, *Natural Philosophy.*  
 H. S. Allen, *Natural Philosophy.*  
 R. P. Hardie, *Ancient Philosophy.*  
 J. Drever, *Psychology.*  
 H. Barker, *Moral Philosophy.*  
 M. Burns (Miss), *French.*  
 O. Schlapp, *German.*  
 H. F. Eggeling, *German.*  
 E. Grillo, *Italian.*  
 B. S. Cano, *Spanish.*  
 H. C. Brennan, *Russian.*  
 D. P. Heatley, *Ancient History (Greek and Roman).*  
 G. G. Chisolm, *Geography.*  
 A. B. Lennie (Miss), *Geography.*  
 J. B. Guild, *Political Economy.*  
 W. H. Myles, *Realistic Economics.*  
 (Vacant), *Organization of Industry and Commerce.*  
 J. F. Rees, *Economic History.*  
 A. McNeil, *Banking (Charles Bruce Lectureship).*

## Lecturers—Continued :

- G. A. Carse, *Statistics and Mathematical Economics.*  
 J. Ewing, *Colonial and Indian History.*  
 D. Kennedy-Fraser, *Education.*  
 L. Dobbin, *Chemistry.*  
 J. E. Mackenzie, *Chemistry.*  
 S. A. Kay, *Chemistry.*  
 H. G. Rule, *Chemistry.*  
 A. M. Williams, *Chemistry.*  
 D. Balsillie, *Chemistry.*  
 J. D. M. Ross, *Chemistry.*  
 A. C. Cumming, *Technical Chemistry.*  
 R. Campbell, *Petrology.*  
 T. M. Finlay, *Paleontology.*  
 J. L. S. Smith, *Botany.*  
 R. W. Pealling, *Plant Physiology.*  
 W. G. Crail, *Forest Botany and Indian Forest Trees.*  
 M. Wilson, *Mycology and Bacteriology.*  
 W. W. Taylor, *Chemical Physiology.*  
 M. L. Walker (Miss), *Experimental Physiology.*  
 R. K. S. Lim, *Histology.*  
 A. N. Bruce, *Physiology of the Nervous System.*  
 W. H. Kerr, *Engineering Drawing and Structural Design.*  
 J. B. Todd, *Surveying and Hydraulics.*  
 W. Gordon, *Strength of Materials and Forest Engineering.*  
 H. C. Gardham, *Geometrical and Graphical Drawing.*  
 J. A. S. Watson, *Agriculture.*  
 J. L. Pike, *Forestry.*  
 D. C. Fergusson, *Forestry.*  
 R. Stewart MacDougall, *Agricultural Entomology and Forest Zoology.*  
 (Vacant), *Anthropology and Prehistoric Archaeology.*  
 O. C. Bradley, *Comparative Anatomy.*  
 G. F. Stout, *Gifford Lecturer on Natural Theology.*  
 Rev. C. Campbell, *Gunning Lecturer.*  
 D. O. Dykes, *International Private Law.*  
 W. J. Lewis, *Evidence and Procedure.*  
 (Vacant), *Landlord and Tenant.*  
 P. F. Wood, *Administrative Law.*  
 H. Aitken, *Mercantile Law.*  
 H. B. Murdoch, *English Law.*  
 W. G. Sym, *Diseases of the Eye.*  
 J. V. Paterson, *Diseases of the Eye.*  
 J. S. Fowler, *Clinical Instruction on Diseases of Children.*  
 J. Beard, *Comp. Embryology and Vertebrate Morphology.*  
 (Vacant), *Genetics.*  
 E. B. Jamieson, *Anatomy.*  
 F. E. Jardine, *Anatomy.*  
 W. Q. Wood, *Anatomy.*  
 W. C. Sillar, *Experimental Pharmacology.*  
 D. M. Lyon, *Practical Pathology.*

**Lecturers—Continued :**

- J. Miller, *Morbid Anatomy*.  
 J. M. Graham, *Surgical Pathology*.  
 (Vacant), *Orthopedics*.  
 A. L. Turner, *Diseases of the Larynx, Ear and Nose*.  
 J. M. Farquharson, *Diseases of the Larynx, Ear and Nose*.  
 Lt.-Col. D. G. Marshall, *Diseases of Tropical Climates*.  
 N. Walker, *Clinical Instruction on Diseases of the Skin*.  
 F. Gardiner, *Clinical Instruction on Diseases of the Skin*.  
 A. James, *Infective Fevers*.  
 C. B. Ker, *Infective Fevers*.  
 J. W. Ballantyne, *Midwifery (to Women)*.  
 A. H. F. Barbour, *Systematic and Clinical Gynecology*.  
 N. T. Brewis, *Systematic and Clinical Gynecology*.  
 J. H. Ferguson, *Systematic and Clinical Gynecology*.  
 W. Fordyce, *Systematic and Clinical Gynecology*.  
 J. D. Comrie, *History of Medicine*.

**Post-Graduate Courses in Medicine and Surgery** and in various Departments of the Faculties of Arts, Science and Divinity.

A notable development is the institution of Post-Graduate Courses in many subjects, more especially in view of the Ph.D. Degree now being instituted.

**Museums.**—Natural Philosophy, Fine Art, Geological, Natural History, Chemistry, Forestry, Agricultural Entomology, Anatomical, Physiology, Materia Medica, Forensic Medicine, Practice of Physic, Surgical, Obstetrical, and Music Museums.

**Libraries.**—The University Library. *Librarian:* F. C. Nicholson. Theological, Sellar and Goodhart (Classical), Philosophical, History, Physiology, Astronomy, Modern Languages, Natural Philosophy, Geology, Engineering, and Music Libraries.

No Institutions expressly affiliated, but the following contribute to the education of Students of Science:

Heriot-Watt College.

Edinburgh and East of Scotland College of Agriculture.

Dick Veterinary College.

## CLINICAL SURGERY.

**Senior Lecturers : Lecturers :**

- |                    |                  |
|--------------------|------------------|
| Prof. A. Thomson.  | G. L. Chiene.    |
| J. W. B. Hodsdon.  | W. J. Stuart.    |
| D. Wallace.        | J. W. Struthers. |
| A. Miles.          | H. Wade.         |
| J. W. Dowden.      | D. P. D. Wilkie. |
| A. A. S. Skirving. | J. Fraser.       |
|                    | J. M. Graham.    |
|                    | A. P. Watson.    |
|                    | F. E. Jardine.   |

## CLINICAL MEDICINE.

**Senior Lecturers : Lecturers :**

- |                         |   |
|-------------------------|---|
| Prof. Sir R. W. Philip. | E. Matthew.   |
| R. A. Fleming.          | W. T. Ritchie.  |
| H. Rainy.               | J. Eason.   |
| D. C. Watson.           | J. D. Comrie.   |
| E. Bramwell.            | A. Goodall.   |
|                         | C. M'Neil.  |
| J. J. Graham Brown,     | <i>Neurology</i> .                                    |
| H. Rainy,               | <i>Physical Methods in the Treatment of Disease</i> . |
| M. Shirlaw,             | <i>Music</i> .  |
| 56 Assistants.          |   |

**SCHOOL OF MEDICINE OF THE ROYAL COLLEGES, Edinburgh. (1505.)**

*Terms :* Two per year.

*Students :* Winter Session (1918-19), 374.

## OFFICIAL.

*Dean of the School.*—R. Cranston Low, M.B., F.R.C.P.

## LECTURERS.

- T. W. Drinkwater, *Chemistry*.  
 H. Miller, *Zoology*.  
 C. R. Whitaker, *Biology*.  
 D. Turner, *Physics*.  
 J. R. Whitaker, *Anatomy*.  
 A. Goodall, *Physiology*.  
 J. Orr, *Materia Medica*.  
 J. Miller, *Pathology and Bacteriology*.  
 R. A. Fleming, *Medicine*.  
 Sir R. W. Philip, *Clinical Medicine*.

- J. J. G. Brown, *Neurology and Clinical Medicine*.  
 H. Rainy, *Clinical Medicine*.  
 C. Watson, " "  
 E. Bramwell, " "  
 N. T. Brewis, *Clinical Gynecology*.  
 A. A. S. Skirving, *Surgery*.  
 J. Hodsdon, *Clinical Surgery*.  
 D. Wallace, *Clinical Surgery*.  
 A. Miles, *Clinical Surgery*.

LECTURERS—*Continued* :

J. W. Dowden, *Clinical Surgery*.  
 H. Wade, *Surgery*.  
 D. B. Hart, *Midwifery and Gynecology*.  
 W. G. A. Robertson, *Vaccination, Forensic Medicine, Medical Jurisprudence and Public Health*.  
 W. D. D. Small, *Vaccination*.

J. V. Paterson, *Diseases of the Eye*.  
 J. M. Farquharson, *Diseases of the Ear, Nose, and Throat*.  
 J. S. Fraser, *Diseases of the Ear, Nose, and Throat*.  
 A. D. Fordyce, *Diseases of Children*.  
 J. Guy, *Tuberculosis*.  
 Lt.-Col. J. Keay, *Mental Diseases*.

**Post-Graduate Courses.**—The School of Medicine of the Royal Colleges holds Post-Graduate Courses conjointly with the Edinburgh University.

AFFILIATED INSTITUTIONS.

Surgeons' Hall and New School of Medicine.

**ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH** (Incorporated by Royal Charter, 1681), Hall and Library, 9 Queen St., Edinburgh.

*President.*—Sir Robert Philip.

*Vice-President.*—Dr. A. H. F. Barbour.

*Secretary.*—Dr. J. S. Fowler.

*Treasurer.*—Dr. Norman Walker.

*Librarian.*—Dr. Berry Hart.

*Sub-Librarian.*—T. H. Graham, O.B.E.

*Clerk.*—A. Gray Muir, W.S.

*Auditor.*—J. Wilson Brodie, C.A.

*Representative in General Medical Council.*—Dr. W. Russell.

**RESEARCH LABORATORY**, 2, Forrest Road, Edinburgh.

*Curator.*—Dr. J. J. Graham-Brown.

*Superintendent.*—Dr. J. Ritchie, Secundus.

*Assistant Superintendent.*—Dr. J. P. McGowan.

*Neurological Histologist.*—Dr. J. W. Dawson.

**HERIOT-WATT COLLEGE**, Chambers Street, Edinburgh. (1821.)

*Terms* : Day Classes, October to March, April to June.

Evening Classes, October to March.

*Students* : Day, 250; Evening, 3,000.

*Budget* :

Expenditure .. .. . £19,776.

Income (including Government Grant) .. £10,719.

OFFICIALS.

*Governors.*—The Governors of George Heriot's Trust.

*Chairman.*—The Rt. Hon. The Lord Provost of Edinburgh.

*Convener of Heriot-Watt College Committee.*—Bailie Barrie, J.P.

*Principal.*—A. P. Laurie, M.A., D.Sc.

*Clerk to the Governors.*—Peter Macnaughton, S.S.C.

No **Degrees** granted by College. Classes recognized by Universities of London and Edinburgh for degree of B.Sc. Diplomas are granted in Departments of Mechanical Engineering, Electrical Engineering, Applied Chemistry, and Mining Engineering.

PROFESSORS.

R. Stanfield, *Mechanical Engineering*.

F. G. Baily, *Electrical Engineering*.

A. A. Boon, *Applied Chemistry*.

H. Briggs, *Mining Engineering*.

2 Lecturers, Heads of Departments, and a large staff of Assistants.

**ROYAL (DICK) VETERINARY COLLEGE**, Edinburgh. (1823.)

*Terms* : Three per year.

*Principal.*—O. Charnock Bradley, M.D., D.Sc., M.R.C.V.S.

*Secretary.*—F. P. Milligan.

**Degrees conferred.**—Students are eligible to take the Diploma of Membership of the Royal College of Veterinary Surgeons (M.R.C.V.S.) and the degree of B.Sc. in Veterinary Science of the University of Edinburgh.

#### PROFESSORS.

O. C. Bradley, <i>Anatomy.</i>	D. C. Matheson, <i>Pathology.</i>
G. H. Gemmell, <i>Chemistry.</i>	R. G. Linton, <i>Hygiene and Dietetics.</i>
R. S. Macdougall, <i>Biology.</i>	W. M. Wilson, <i>Surgery.</i>
H. Dryerre, <i>Physiology.</i>	J. Russell Greig, <i>Medicine.</i>

2 Assistants and 1 House Surgeon.

**Post-Graduate Courses** in Pathology, Bacteriology, etc. Courses for Diploma in Veterinary State Medicine (D.V.S.M.).

#### FREE CHURCH COLLEGE, The Mound, Edinburgh. (1843.)

*Session* : October to March.

*Principal.*—Rev. J. D. McCulloch, D.D.

*Clerk of Senatus.*—Rev. R. Moore.

Classes recognized by all the Scottish Universities as qualifying for admission to examination for B.D. degree.

#### PROFESSORS.

Rev. W. M. Alexander, <i>Apologetics, Natural Science, Homiletics, Pastoral Theology, Missions.</i>	Rev. R. Moore, <i>Hebrew and Old Testament Exegesis.</i>
Rev. C. A. Bannatyne, <i>Church History and Church Principles.</i>	Rev. J. K. Cameron, <i>Systematic Theology.</i>
	Rev. J. R. MacKay, <i>New Testament Exegesis.</i>

1 Lecturer.

**Post-Graduate Courses.**—Divinity Course for candidates for the Ministry and for the B.D. degree in the Scottish Universities.

#### Museums.—

Geological, Botanical and Zoological Museum, containing more than 4,000 specimens.

Biblical Museum, containing articles collected in Palestine and adjacent countries by the late Wm. Dickson.

**Library** of about 17,000 volumes. *Librarian* : Professor Alexander.

#### NEW COLLEGE, Mound, Edinburgh. (1846.)

*Terms* : Three per year.

*Students* : Average, 80.

*Principal.*—Alex. Marvin, D.D.

**Degrees.**—B.A. and M.A., obtained at the University before entering New College; B.D. after concluding course.

#### PROFESSORS.

Alex. Martin, <i>Apologetics.</i>	Hugh Watt, <i>Church History.</i>
H. R. Mackintosh, <i>Systematic Theology.</i>	Adam C. Welch, <i>Old Testament.</i>
H. A. A. Kennedy, <i>New Testament.</i>	J. Y. Simpson, <i>Natural Science.</i>

1 Lecturer, 1 Tutor.

**Post-Graduate Courses.**—Special Courses for Students from America and elsewhere for obtaining the Degree of Ph.D. at the University.

#### Societies.—

Theological Society.

Missionary Society.

*Librarian* : J. Kennedy, D.D. *Assistant Librarian* : D. M. W. Laird, M.A.

#### EDINBURGH AND EAST OF SCOTLAND COLLEGE OF AGRICULTURE

No particulars received.



**ROYAL SOCIETY OF EDINBURGH**, 22, George Street, Edinburgh. (1783.)

OFFICIALS.

*President*.—Prof. F. O. Bower, M.A., D.Sc., LL.D., F.R.S.

*General Secretary*.—Cargill G. Knott, D.Sc., LL.D.

*Secretaries to Ordinary Meetings*.—

Prof. E. T. Whittaker, Sc.D., F.R.S.

Prof. J. H. Ashworth, D.Sc., F.R.S.

*Treasurer*.—James Currie, M.A., LL.D.

*Curator of Library and Museum*.—A. Crichton Mitchell, D.Sc.

*Librarian and Assistant Secretary*.—G. A. Stewart.

*Assistant Librarian*.—Miss E. Harivel.

*Number of Ordinary Fellows*: Over 600.

*Honorary Fellows*: British, 20; Foreign, 36.

**Meetings**.—Statutory: Held on the fourth Monday of October. Ordinary: For reading and discussing communications and for general business, are held on the first and third Mondays of each month, from November to March, and from May to July, inclusive, with the exception that in January the meetings are held on the second and fourth Mondays.

**Publications**.—

Transactions.

Proceedings.

**Library**.—Contains 50,000 volumes, forming the most complete Scientific Reference Library in Scotland.

**ROYAL BOTANIC GARDEN**, Edinburgh. (1670.)

One of the three Gardens maintained by the State in the United Kingdom. It has an area of 57·6 acres. Open daily from 9 a.m. on week-days and from 11 a.m. on Sundays until sunset, free. The plant-houses are open from 1 p.m. until 5.30 p.m., or until sunset if this be earlier.

STAFF.

*Regius Keeper*.—Isaac Bayley Balfour, M.A., M.D., F.R.S.

*Assistant Keeper*.—William Wright Smith, M.A., F.L.S., F.R.S.E.

*Assistant in Herbarium*.—William Edgar Evans, B.Sc.

*Assistant in Laboratory*.—Matthew Young Orr.

*Assistant in Library*.—James Todd Johnstone, M.A., B.Sc.

*Assistant in Museum*.—Harry Frank Tagg, F.L.S.

*Assistant in Studio*.—Robert Moyes Adam.

*Head Gardener*.—Robert Lewis Harrow, F.R.H.S.

*Plant Propagator*.—Lawrence Baxter Stewart.

**Courses**.—In Horticulture, Forestry and allied Sciences for Gardeners and Foresters. The Laboratories are open to anyone desirous of undertaking Botanical Research. The Botanical Department of the University of Edinburgh carries out its work in the Lecture Rooms and Laboratories of the Garden.

**GEOLOGICAL SURVEY OF SCOTLAND.** See LONDON.

**EDMONTON (Alberta).**

**UNIVERSITY OF ALBERTA**, Edmonton, Alberta, Canada. (1908.)

*Terms*, one per year—October to May.

*Students*, 600.

*Budget*, current, \$339,493.

*Capital*, \$300,000.

OFFICIALS.

*Visitor*.—Hon. Robert George Brett, M.D., LL.D., Lieut.-Governor of Alberta.

*Chancellor*.—Hon. Chas. Allen Stuart, B.A., LL.B., LL.D.

*Vice-Chancellor*.—Hon. Nicholas Dubois Dominic Beck, LL.B.

*President*.—Henry Marshall Tory, M.A., D.Sc., LL.D., F.R.C.S.

*Chairman of Board of Governors*.—Hon. Horace Harvey, M.A., LL.B., LL.D., Chief Justice of Alberta.

*Secretary to the Board*.—Duncan S. Mackenzie.

*Dean of the Faculty of Arts and Sciences.*—Wm. Alex. Robb Kerr, M.A., Ph.D.

*Dean of the Faculty of Agriculture.*—Ernest A. Howes, B.S.A.

*Librarian.*—Frank G. Bowers.

*Registrar.*—Cecil Ethelbert Race, B.A., C.A., Secretary to the Senate.

**Degrees conferred.**—B.A., B.D., B.Sc. (Arts), B.Sc. (Pharmacy), B.S.A., LL.B.

The degree of LL.D. is conferred in recognition of distinction in literature or science, or for notable public service.

The B.D. degree is conferred upon completion by the student of the course offered by the affiliated theological colleges.

In the Faculty of Medicine three years of a five-year course are at present offered, students going to McGill and Toronto to complete their courses, entering without examination.

In Dentistry two years of a four-year course are now offered.

Graduate courses in the Faculty of Arts and Sciences are offered, leading to the degrees of M.A. and M.Sc.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors :

- W. A. R. Kerr, *Modern Languages.*
- W. H. Alexander, *Classics.*
- E. K. Broadus, *English Lang. and Lit.*
- J. M. McEachran, *Philosophy.*
- E. W. Sheldon, *Mathematics.*
- J. F. Coar, *German.*
- D. M. McGibbon, *Economics.*
- C. S. Burgess, *Architecture.*

#### Assistant Professors :

- G. Misener, *Latin.*
- R. K. Gordon, *English.*
- A. L. Burt, *History and Economics.*
- J. Adam, *Drawing and Descriptive*
- C. Carruthers, *Classics.* [Geometry.]
- P. A. W. Wallace, *English.*

### FACULTY OF SCIENCE.

#### Professors :

- A. L. F. Lehmann, *Chemistry.*
- F. J. Lewis, *Biology.*
- R. F. Boyle, *Physics.*

#### Assistant Professors :

- J. A. Allen, *Geology.*
- S. D. Killam, *Applied Mathematics.*
- C. A. Robb, *Mechanical Engineering.*
- I. F. Morrison, *Structural Engineering.*
- G. A. Borden (Miss), *Household Economics.*

### FACULTY OF MEDICINE.

#### Professors :

- D. G. Revell, *Anatomy.*
- A. Rankin, *Bacteriology.*
- H. H. Gaetz, *Pharmacy and Materia Medica.*

#### Assistant Professors :

- J. B. Collip, *Physiology and Biochemistry.*

### FACULTY OF AGRICULTURE.

#### Professors :

- E. A. Howes, *Agriculture.*
- A. A. Dowell, *Animal Husbandry.*
- G. H. Cutler, *Field Husbandry.*
- F. A. Wyatt, *Soils.*

**Post-Graduate Courses.**—Courses are offered in the Faculty of Arts and Sciences leading to the Degrees of M.A. and M.Sc. (Arts).

## AFFILIATED INSTITUTIONS.

- Alberta College (Methodist Theological), Edmonton.
- Robertson College (Presbyterian Theological), Edmonton.
- Western Canada College (Preparatory), Calgary.
- Mount Royal College (Preparatory), Calgary.
- The University School (Preparatory), Calgary.
- Westward Ho College (Preparatory), Edmonton.
- Llanarthney School for Girls (Preparatory), Edmonton.
- St. Aidan's Anglican College (Church of England Theological), Edmonton.

### ROBERTSON COLLEGE, Edmonton, Alberta. (1910.)

Affiliated to the University of Alberta.

Robertson (Presbyterian) and Alberta (Methodist) are two co-operating schools of Theology on the University Campus, both affiliated to the University of Alberta.

Robertson College, however, has the power, conferred by Charter of the Legislative Assembly of the Province, to confer the honorary degree of D.D. (Doctor of Divinity).

*Sessions :* One per year.

*Students (1919-20):* 20.

OFFICIAL.

*Principal*.—J. M. Millar, D.D.

5 Lecturers.

Degrees conferred.—B.D. by University of Alberta.

**Post-Graduate Courses**.—The B.D. Courses are given in Robertson College, and the degree is bestowed by the University.

**Library**.—Theological Library of 4,000 volumes. *Librarian*: H. G. Rice.

EDWARDES COLLEGE. See PESHAWAR.

ENGLEFIELD GREEN.

ROYAL HOLLOWAY COLLEGE, Englefield Green, Surrey. (1883.)

*Terms*: Three a year.

*Students*: 200.

OFFICIALS.

*Chairman of Governing Body*.—Sir Joseph Savory, Bart.

*Principal*.—Miss E. C. Higgins, B.A.

*Secretary*.—Miss W. R. Dolling.

PROFESSORS.

J. H. Sleeman, *Classics*.

M. E. S. Taylor (Miss), *Classics*.

S. L. Loney, *Mathematics*.

E. M. Rowell (Miss), *Mathematics*.

K. S. Block (Miss), *English*.

M. D. Honey (Miss), *French*.

W. E. Delp (Miss), *German*.

E. J. Carlyle, *History*.

M. J. Benson, *Botany*.

T. S. Moore, *Chemistry*.

F. Horton, *Physics*.

S. M. Barker (Miss), *Music*.

15 Lecturers.

**Library**.—Library of over 14,000 volumes. *Librarian*: Miss M. Hewlett.

**Post-Graduate Courses** for M.A., and M.Sc.

EUGENE (Oregon).

UNIVERSITY OF OREGON, Eugene, Oregon. (1792.)

*Terms*: Three a year and a summer term.

*Students*: 1,924.

*Budget*: \$390,960.17.

OFFICIALS.

*President*.—P. L. Campbell.

*Comptroller*.—L. H. Johnson.

*Registrar*.—C. E. Spencer.

*Librarian*.—M. H. Douglas.

*Dean of the College of Literature, Science, and the Arts*.—J. Straub, M.A., Lit.D.

*Dean of Graduate School*.—F. G. Young, B.A.

*Dean of Summer School*.—J. Schafer, Ph.D.

*Dean of School of Education*.—H. D. Sheldon, Ph.D.

*Dean of School of Medicine*.—K. A. J. Mackenzie, M.D.

*Dean of School of Commerce*.—D. W. Morton, M.A., C.P.A.

*Dean of School of Journalism*.—E. W. Allen, B.A.

*Dean of School of Architecture*.—E. F. Lawrence, M.S.

*Dean of School of Law*.—E. W. Hope, Ph.D.

*Dean of School of Music*.—J. J. Landsbury, Mus.Dr.

*Dean of Women*.—Miss E. F. Fox, B.A.

Degrees conferred.—B.A., B.Sc., LL.B., B.M., M.A., M.Sc., J.D., M.D., Ph.D.

# PROFESSORS.

## LITERATURE, SCIENCE AND ARTS.

### Professors :

- J. C. Almaack, *Extension Division*.  
J. D. Barnett, *Political Science*.  
E. S. Bates, *Rhetoric and American Literature*.  
J. F. Bovard, *Zoology*.  
Capt. R. C. Baird, *Military Science and Tactics*.  
W. P. Boynton, *Physics*.  
J. Burgess (Miss), *Rhetoric*.  
G. S. Monk, *Physics*.  
H. A. Clark, *Latin*.  
R. C. Clark, *History*.  
T. Cloran, *Romance Languages*.  
E. S. Conklin, *Psychology*.  
M. L. Cummings (Miss), *Women's Gymnasium*.  
P. C. Crockatt, *Economics*.  
E. E. De Cou, *Mathematics*.  
F. S. Dunn, *Latin Language and Literature*.  
J. H. Gilbert, *Economics*.  
H. C. Howe, *English Literature*.  
J. J. Landsbury, *Music*.  
E. F. Lawrence, *Architecture*.  
E. H. McAlister, *Mechanics and Astronomy*.  
W. E. Milne, *Mathematics*.  
E. L. Packard, *Geology*.  
M. H. Parsons (Mrs.), *Rhetoric*.  
M. H. Perkins (Miss), "  
R. W. Prescott, *Public Speaking*.  
G. Rebec, *Philosophy*.  
A. F. Reddie, *Public Speaking*.  
E. C. Robbins, *Economics and Sociology*.  
J. Schafer, *History*.  
F. G. G. Schmidt, *German Language and Literature*.  
A. H. Schroff, *Fine Arts*.  
F. L. Shinn, *Chemistry*.  
W. D. Smith, *Geology*.  
O. F. Stafford, *Chemistry*.  
J. Straub, *Greek Language and Literature*.  
A. R. Sweetser, *Botany*.  
W. F. G. Thacher, *Rhetoric*.  
E. Thorstenberg, *Scandinavian Languages and Literatures*.  
L. Tingle (Miss), *Household Arts*.  
R. H. Wheeler, *Psychology*.  
M. Watson (Miss), *English Literature*.  
F. G. Young, *Economics and Sociology*.

### Assistant Professors :

- E. Waterman (Miss), *Physical Education*.  
H. Rhodes (Miss), *Drawing*.  
L. C. Roxenberg, *Drawing*.

## SCHOOL OF MEDICINE.

### Professors :

- W. F. Allen, *Anatomy*.  
J. F. Bell, *Theory and Practice of Medicine*.  
R. L. Benson, *Pathology*.  
J. B. Bilderback, *Pediatrics*.  
G. E. Burget, *Physiology*.  
J. F. Dickson, *Ophthalmology*.  
R. B. Dillihunt, *Anatomy*.  
H. D. Haskins, *Biochemistry*.  
S. E. Josephi, *Mental and Nervous Diseases*.  
E. J. Labbe, *Obstetrics*.  
A. E. Mackay, *Diseases of Genito-Urinary Organs*.  
K. A. J. Mackensie, *Operative and Clinical Surgery*.  
H. B. Myers, *Materia Medica, Pharmacology and Toxicology*.  
R. Nunn, *Diseases of Eye, Nose, and Throat*.  
H. J. Sears, *Bacteriology*.  
E. F. Tucker, *Gynecology*.  
G. F. Wilson, *Principles and Practice of Surgery*.  
R. C. Yenney, *Clinical Medicine*.

### Associate Professors :

- J. C. Zan, *Clinical Surgery*.  
F. R. Menne, *Pathology*.  
W. House, *Mental and Nervous Diseases*.

### Assistant Professors :

- A. W. Baird, *Surgery*.  
H. C. Bean, *Medicine*.  
I. C. Brill, *Medicine*.  
T. H. Coffen, *Clinical Medicine*.  
H. W. Coffin, *Medicine*.  
R. C. Coffey, "  
J. E. Else, *Surgery*.  
J. A. Gilbert, *Medicine*.  
W. B. Holden, *Surgery*.  
F. A. Kiehle, *Ophthalmology*. [ology.  
J. C. E. King, *Dermatology and Syphil-*  
W. S. Knox, *Clinical Medicine*.  
G. A. Koehler, *Medicine*.  
R. C. Matson, "  
R. W. Matson, "  
C. J. McCusker, *Obstetrics*.  
C. E. Sears, *Medicine*.  
L. Selling, *Clinical Medicine*.  
C. S. White, *Hygiene and Sanitation*.  
G. S. Whiteside, *Genito-Urinary Surgery*.  
O. B. Wight, *Gynecology*.

## SCHOOL OF EDUCATION.

### Professors :

- B. W. De Busk, *Education*,  
A. N. French, "  
C. A. Gregory, "



## Professors—Continued:

H. D. Sheldon, *Education*  
F. L. Stetson        "  
H. R. Douglas       "  
G. M. Rusk           "  
V. Morris            "

SCHOOL OF LAW.

**Professors :**

E. W. Hope, *Law*.  
T. A. Larremore, *Law*.  
S. B. Warner, *Law*.

SCHOOL OF JOURNALISM.

**Professors :**

E. W. Allen, *Journalism*.  
G. S. Turnbull        ,,  
C. V. Dymont         ,,

**SCHOOL OF COMMERCE.**

**Professor :**

D. W. Morton, *Commerce*. [tors.  
40 Instructors and Assistant Instruc-

**SCHOOL OF MUSIC.**

**Professors :**

A. Lubken, *Singing.*

**Professors—Continued :**

L. Coon, *Organ*.  
R. Underwood, *Stringed Instruments*.  
A. L. Beck (Mrs.), *Public School Music*.  
J. S. Thacher (Mrs.), *Pianoforte*.  
F. V. Badolett, *Flute*.  
R. Hickernell, *Wind Instruments*.

**Assistant Professors :**

M. Findahl (Miss), *Singing*.  
3 Instructors.

## PORTLAND DIVISION.

### Professors :

F. S. Burke, *Pianoforte*.  
A. Whiteside, *Pianoforte*.  
J. C. Monteith, *Singing*.  
P. M. Chapman (Miss), *Singing*.  
F. Eichenlaub, *Violin*.  
S. F. Pipes (Miss), *Violin*.  
W. Boone, *Organ, Pianoforte, and Com-  
position*.  
C. Denton, *Organ, Pianoforte, and  
Violin*.  
W. H. Boyer, *Public School Music*.

**Post-Graduate Courses.**—M.A., M.Sc.

**Museums.**—

Condon Geological Museum, Johnson Hall.  
Botanical Museum, Deady Hall.  
Zoological Museum, Deady Hall.

**EWING CHRISTIAN COLLEGE.** *See* ALLAHABAD.

EXETER.

ROYAL ALBERT MEMORIAL UNIVERSITY COLLEGE, Exeter. (1901.)

*Terms :* Three a year.

*Students:* 103. Students in Elementary Training Department, School of Art, University Tutorial Evening Classes, 500.

*Budget :*

Income: By Education Grant..	..	..	£4,000
Exeter Council	..	..	4,220
Devon County	..	..	275
Fees ..	..	..	3,000
Sundries	..	..	300

## OFFICIALS.

*Visitor*.—Alexander Hill, M.D.  
*Principal*.—Arthur W. Clayden, M.A.  
*Registrar*.—A. K. Woodbridge.

**Degrees.**—Students are prepared for the degrees of London University.

PROFESSORS.

A. W. Clayden, *Physics*.  
W. H. Lewis, *Chemistry*.  
A. E. Morgan, *English*.  
W. J. Harte, *History*.

H. A. S. Wortley, *Lecturer in Education.*  
Sir Israel Gollancz, *Honorary Leofric Lecturer in Old English.*

30 Lecturers.

### SCHOOL OF ART.

*Visiting Directors.*—Alfred Drury, R.A.; H. Granville Fell.

*Head Master.*—W. Burman Morrall.

7 Assistants.

The **Exeter Public Library** and the **Museum** are both under the same Governing Body as the College. There is a separate Reference Department in the Library for College Students. *Librarian:* H. T. Soper. *Curator:* F. R. Rowley. *Assistant Curator:* Miss E. Aviolet.

### FORMAN CHRISTIAN COLLEGE. See LAHORE.

### FOURAH BAY (Sierra Leone).

**FOURAH BAY COLLEGE**, Freetown, Sierra Leone. (1827.)

The College is affiliated to the University of Durham in Arts and Theology. The C.M.S. College, Oyo, Southern Nigeria, is also affiliated to Durham in Theology only, and there is an arrangement by which we and they reciprocate in examining for Matriculation.

*Terms:* Four a year.

*Students:* 26.

#### OFFICIALS.

*Visitor.*—Right Rev. John Walmsley, D.D.

*Principal.*—J. Denton, M.A., L.Th.

*Vice-Principal.*—Rev. W. T. Balmer, M.A., B.D.

3 Tutors, 2 Lecturers.

**Post-Graduate Courses.**—As at Durham.

Many Graduates go to England for Law and Medicine. Some read for B.C.L., B.D. and M.A. locally. Many get the M.A. and B.C.L. One has got the B.D. Several have received Honorary Degrees from Durham—Hon. D.D., Hon. M.A., etc.

**Library.**—College Library.

### FRANKLIN INSTITUTE. See PHILADELPHIA.

### FREDERICTON (Canada).

**UNIVERSITY OF NEW BRUNSWICK**, Fredericton, New Brunswick, Canada. (1800.)

*Terms:* Two per year.

*Budget:* \$40,000.

*Students:* 160.

#### OFFICIALS.

*Visitor.*—His Honor the Hon. William Pugsley, K.C., M.A., D.C.L., LL.D., P.C., Lieutenant-Governor of the Province of New Brunswick.

*Chancellor.*—Cecil C. Jones, M.A., Ph.D., LL.D.

*President of the Senate.*—W. S. Carter, M.A., LL.D., D.C.L.

*Registrar.*—Havelock Coy, M.A.

#### Degrees conferred :

##### Degrees.

##### Hoods.

B.A.	-	Black stuff bordered with white fur.
B.Sc.	-	(Arts) Black stuff lined with scarlet silk, bordered with white fur.
B.Sc.	-	(Applied Science) Black stuff with green silk, bordered with white fur.
B.C.L.	-	Pale blue silk, bordered with white fur.
M.A.	-	Black silk lined with crimson silk.
M.Sc.	-	(Arts) Black silk lined with white silk, bordered with scarlet.
M.Sc.	-	(Applied Science) Black silk lined with white silk, bordered with green.
Ph.D.	-	Scarlet cloth with dark blue silk lining.
LL.D.	-	Scarlet cloth with pale pink silk lining.
D.Sc.	-	Scarlet cloth with white corded silk lining.
D.C.L.	-	Scarlet cloth with pale blue silk lining.

PROFESSORS.

**FACULTY OF ARTS.**

**Professors :**

- W. T. Raymond, *Classics and Ancient History.*  
 W. C. Kierstead, *Philosophy and Economics.*  
 E. L. Harvey, *English and Modern History.*  
 J. A. Spaulding, *French and German.*

**FACULTY OF PURE AND APPLIED SCIENCE.**

**Professors:**

- C. C. Jones, *Mathematics.*

**Post-Graduate Courses.**—M.A. Courses given when equipment of Department and time-table of instructors permit.

**Museum.**—Natural History Museum, which includes Boardman Bird Collection.  
*Curator :* P. Cox, B.A. B.Sc.

*Librarian :* W. C. Keirstead, M.A.

**Professors—Continued :**

- L. W. Bailey, *Natural History and Geology.*  
 P. Cox, *Natural History and Geology.*  
 J. Stephens, *Mechanical Engineering and Drawing.*  
 A. V. S. Pulling, *Forestry.*  
 E. O. Turner, *Civil Engineering.*  
 C. S. McGinnis, *Physics and Electrical Engineering.*  
 A. Cameron, *Chemistry.*  
 3 Lecturers.

**GAINSVILLE (Florida).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—P. H. Rolfs.

**GALESBURG (Illinois).**

**KNOX COLLEGE,** Galesburg, Illinois. (1837.)

*Terms :* Two semesters.

*Students :* College, 503; Conservatory, 273.

*Budget :* \$90,000.00.

OFFICIALS.

*President.*—James L. McConaughy.

*Dean.*—William E. Simonds.

*Registrar.*—Herbert E. Griffith.

**Degrees conferred.**—B.A., B.Sc., Mus.B.

PROFESSORS.

**Professors :**

- J. L. McConaughy, *Education.*  
 W. E. Simonds, *English.*  
 H. E. Griffith, *Chemistry.*  
 G. T. Sellev, *Mathematics.*  
 A. C. Longden, *Physics.*  
 W. L. Raub, *Philosophy.*  
 W. P. Drew, *Latin.*  
 J. L. Conger, *History.*  
 B. H. Grave, *Biology.* [Literature.  
 J. Sterenberg, *Greek and Biblical*

**Professors—Continued :**

- J. N. Campbell, *Romance Languages.*  
 F. A. Middlebush, *History and Government.*  
 R. E. Curtis, *Economics and Sociology.*  
 J. A. Campbell, *German.*

**Assistant Professors :**

- J. R. Holmes (Miss), *History.*  
 R. C. Whitford, *English.*  
 M. L. Sawyer (Miss), *Biology.*

9 Instructors, 1 Assistant, 1 Director of Athletics, 1 Director of Physical Instruction for Women, 1 Professor of Military Science and Tactics.

**AFFILIATED INSTITUTIONS.**

Knox Conservatory of Music.

There are, in addition, 7 Professors and 4 Instructors in the Conservatory.

## GALWAY.

## UNIVERSITY COLLEGE, Galway. (1845.)

*Terms* : Three per year.*Students* : 175.*Budget* :

Annual Grant from Government	.. ..	£14,000
Annual Grant from Connaught County Councils	.. ..	1,500

## OFFICIALS.

*President*.—Alexander Anderson, M.A., D.Sc., LL.D.*Registrar*.—Rev. J. Hynes, B.D.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- R. K. McElderry, *Ancient Classics*.  
 W. A. Byrne, *English Language and Literature*.  
 W. O'Brien, *Romance Languages*.  
 E. Anderson (Miss), *German*.  
 M. J. D. O'Sullivan (Mrs.), *History*.  
 J. Howley, *Philosophy*.  
 Rev. T. O'Kelly, *Education*.  
 B. F. Shields, *Economics*.  
 2 Assistants.

## FACULTY OF SCIENCE.

## Professors :

- M. Power, *Mathematics*.  
 A. Anderson, *Physics*.  
 T. Dillon, *Chemistry*.  
 J. Mangan, *Natural History*.  
 H. B. Cronshaw, *Geology and Mineralogy*.  
 6 Assistants.

## FACULTY OF MEDICINE.

## Professors :

- J. P. Pye, *Anatomy and Physiology*.  
 R. B. Mahon, *Medicine*.  
 W. W. Brereton, *Surgery*. [rics.  
 R. J. Kinkead, *Gynecology and Obstet-*  
 N. W. Colohan, *Materia Medica and*  
*Pharmacy*.  
 T. Walsh, *Pathology*. [Otology.  
 S. P. MacEnri, *Ophthalmology and*

*Post-Graduate Courses* are given in all the foregoing Faculties.

*Mussums* of Natural History, Geology, Pathology, *Materia Medica*, and *Gynecology*.

*Library*.—40,000 volumes. *Librarian* : Prof. J. Howley, M.A.

## GENERAL THEOLOGICAL SEMINARY. See NEW YORK.

## GENEVA (New York).

NEW YORK AGRICULTURAL EXPERIMENT STATION, Geneva, New York.  
 (1880.)

## OFFICIALS.

*President*.—C. S. Wilson.*Director*.—Whitman H. Jordan.*Secretary and Treasurer*.—W. O'Hanlon.*Librarian*.—F. H. Hall, B.S.



STAFF.

*Agriculturist*.—G. W. Churchill.

*Agronomist*.—R. C. Collison.

*Assistant Chemist (Agronomy)*.—J. E. Mensching.

3 Assistant Agronomists.

*Bacteriologist*.—R. S. Breed.

*Assistant Bacteriologists*.—H. J. Conn.

3 Assistant Bacteriologists.

*Botanist*.—F. C. Stewart.

*Associate Botanist*.—W. O. Gloyer.

1 Assistant Botanist.

*Chemist*.—L. L. Van Slyke.

*Associate Chemists*.—

R. J. Anderson.

A. W. Clark.

J. C. Baker.

6 Assistant Chemists.

*Dairy Expert*.—G. A. Smith.

*Entomologist*.—J. P. Parrott.

*Associate Entomologists*.—

H. Glasgow.

F. Z. Hartzell.

2 Assistant Entomologists.

*Horticulturist*.—U. P. Hedrick.

*Associate Horticulturists*.—

R. D. Anthony.

F. E. Gladwin.

O. M. Taylor.

4 Assistant Horticulturists.

*Special Agent*.—F. Atwood Sirmine.

7 Clerks and Stenographers.

GEOLOGICAL SURVEY OF GREAT BRITAIN. See LONDON.

GEOLOGICAL SURVEY OF INDIA. See CALCUTTA.

GEORGETOWN UNIVERSITY. See WASHINGTON.

GEORGE WASHINGTON UNIVERSITY. See WASHINGTON.

GEORGIA UNIVERSITY. See ATHENS.

GLASGOW.

UNIVERSITY OF GLASGOW, Glasgow. (1450.)

*Terms*: Three per year.

*Students* (1918-19): 3,047.

*Budget* (1917-19):

Income: Fees .. ..	£34,850
Endowments .. ..	20,116
Treasury Grants .. ..	33,380
Miscellaneous .. ..	3,700
Expenditure .. ..	91,283

OFFICIALS.

*Chancellor*.—The Earl of Rosebery and Midlothian, K.G., K.T.

*Principal and Vice-Chancellor*.—Sir Donald MacAlister, K.C.B., M.A., D.C.L., LL.D., D.Sc., Ph.D.

*Rector*.—The Right Hon. A. Bonar Law.

*Dean of Faculties*.—Emeritus Prof. Stewart, D.D., LL.D.

*Secretary of University Court*.—Alan E. Clapperton, LL.D.

*Assistant Secretary of University Court*.—Robert Brough.

*Clerk of Senate*.—Rev. Prof. Milligan, D.D., D.C.L.

*Registrar of University*.—Albert Morrison.

Degrees conferred:

*Degrees*.

*Hoods*.

B.A. -	-	Black silk, bordered inside with red purple silk (colour of bell heather— <i>Erica cinerea</i> ).
M.A. -	-	Black silk, lined with red purple silk.
D.Phil. -	-	Scarlet cloth, lined with reddish purple silk.
D.Litt. -	-	Scarlet cloth, lined with bluish purple silk.
B.Sc. -	-	Black silk, bordered with scarlet cloth and lined with gold coloured silk (colour of whin blossom— <i>Ulex Europæa</i> ).
D.Sc. -	-	Scarlet cloth, lined with gold-coloured silk.
B.L. -	-	Black silk, with an inside border of venetian red silk (colour of clove carnations).

### Degrees conferred—Continued.

Degrees.	Hoods.
LL.B. -	Black silk, bordered with scarlet cloth, and lined with venetian red silk.
LL.D. (Hon.)	Scarlet cloth, lined with venetian red silk.
M.B. and C.M.	Black silk, bordered with scarlet cloth and lined with scarlet silk.
M.D. -	Scarlet cloth, lined with scarlet silk.
B.D. -	Black silk, bordered with scarlet cloth, and lined with a light cherry silk.
D.D. (Hon.) -	Scarlet cloth, lined with white silk.

### PROFESSORS.

#### FACULTY OF ARTS.

##### Professors:

- R. Latta, *Logic and Rhetoric*.  
A. Gray, *Natural Philosophy*.  
Sir H. Jones, *Moral Philosophy*.  
G. A. Davies, *Greek*.  
J. S. Phillimore, *Humanity*.  
W. M. Dixon, *English Language and Literature*.  
D. J. Medley, *History*.  
W. R. Scott, *Political Economy*.  
R. S. Rait, *Scottish History and Literature*.  
C. A. Martin, *French Language and Literature*.  
H. Smith, *German Language and Literature*.

##### Lecturers:

- C. A. Martin, *French Language and Literature*.  
H. Smith, *German Language and Literature*.  
E. Grillo, *Italian Language and Literature*.  
H. Brennan, *Russian Language and Literature*.  
G. Calder, *Celtic Language and Literature*.  
R. Girvan, *English Language*.  
J. S. Smart, *English*.  
R. A. Duff, *Political Philosophy*.  
J. H. Jones, *Social Economics*.  
T. Keith (Miss), *Economic History*.  
A. Browning, *History*.  
W. Boyd, *Education*.  
T. H. Weir, *Arabic*.  
J. D. Falconer, *Geography*.  
H. J. Watt, *Psychology*.  
L. J. Russell, *Logic*.  
W. Anderson, "*"*.  
J. W. Scott, *Moral Philosophy*.  
R. G. Nisbet, *Latin*.  
W. Rennie, *Greek*.  
J. B. Hutton, *Greek History and Antiquities*.  
S. N. Miller, *Roman History and Antiquities*.  
J. W. Pirie, *Comparative Philology*.

#### FACULTY OF SCIENCE.

##### Professors:

- G. A. Gibson, *Mathematics*.  
J. G. Kerr, *Zoology*.  
G. G. Henderson, *Chemistry*.

##### Professors—Continued:

- T. S. Patterson, *Organic Chemistry*.  
F. O. Bower, *Botany*.  
J. D. Cormack, *Civil Engineering*.  
Sir J. H. Biles, *Naval Architecture and Marine Engineering*.  
J. W. Gregory, *Geology*.  
(Vacant), *Mining*.

##### Lecturers:

- R. J. T. Bell, *Mathematics*.  
J. M. F. Drummond, *Botany*.  
J. G. Gray, *Physics*.  
R. A. Houstoun, *Physical Optics*.  
G. E. Allan, *Electricity, Pure and Applied*.  
G. Green, *Natural Philosophy*.  
J. Connell, *Astronomy*.  
W. E. Agar, *Zoology and Protozoology*.  
R. Wright, *Physical Chemistry*.  
H. W. Bolam, *Chemistry*.  
J. S. Nicholson, *Electrical Engineering*.  
W. G. Goudie, *Engineering*.  
R. M. Brown, "*"*.  
G. W. Tyrrell, *Geology*.

#### FACULTY OF MEDICINE.

##### Professors:

- T. K. Monro, *Practice of Medicine*.  
T. H. Bryce, *Anatomy*.  
Sir W. Macewen, *Surgery*.  
M. Cameron, *Midwifery*.  
R. Stockman, *Materia Medica*.  
D. N. Paton, *Physiology*.  
J. Glaister, *Forensic Medicine*.  
R. Muir, *Pathology*.  
J. M. M. Kerr, *Obstetrics and Gynecology*.  
R. Kennedy, *Surgery*.  
J. H. Teacher, *Pathology*.  
W. K. Hunter, *Medicine*.

##### Lecturers:

- A. A. Gray, *Diseases of the Ear*.  
J. Adam, *Diseases of the Ear*.  
J. W. Downie, *Diseases of the Throat and Nose*.  
J. Harper, *Diseases of the Throat and Nose*.  
A. M. Ramsay, *Eye*.  
L. R. Oswald, *Insanity*.  
D. Burns, *Physiology*.  
A. McL. Watson, *Physiology*.

**Lecturers—Continued:**

G. H. Wilson, *Bacteriology*.  
 J. Wyllie Nicol, *Dermatology*.  
 G. MacIntyre, *Dermatology*.  
 J. W. McNee, *Pathological Histology*.  
 W. J. Dilling, *Materia Medica*.  
 W. K. Hutton, *Anatomy*.  
 J. M. Cowan, *Clinical Medicine*.  
 J. B. M. Anderson, *Clinical Medicine*.  
 W. R. Jack " "  
 J. Henderson " "  
 A. N. MacGregor, *Clinical Surgery*.  
 T. Kay " "  
 G. H. Edington " "  
 D. Watson, *Venerel Diseases*.  
 J. H. Macdonald, *Psychological Medicine*.  
 J. R. Riddell, *Electrical Diagnosis and Therapeutics*.  
 A. Allison, *Public Health*.  
 J. Crockett, *Clinical Tuberculosis*.  
 A. S. M. Macgregor, *Clinical Tuberculosis*.

**FACULTY OF THEOLOGY.**

**Professors:**

H. M. B. Reid, *Divinity*.  
 W. B. Stevenson, *Hebrew and Semitic Languages*.  
 J. Cooper, *Church History*.  
 G. Milligan, *Biblical Criticism*.

**FACULTY OF LAW.**

**Professors:**

W. M. Gloag, *Law*.  
 W. S. McKechnie, *Conveyancing*.

**Lecturers:**

A. A. Mitchell, *General and Comparative Jurisprudence*.  
 D. B. Mungo, *Constitutional Law and History*.  
 H. R. Buchanan, *Civil Law*.  
 T. G. Wright, *Mercantile Law*.  
 R. Lamond, *Evidence and Procedure*.  
 45 Assistants to Professors, 7 Assistants to Lecturers.

**Post-Graduation Courses** in the Faculty of Medicine are held at the Royal, Western, and Victoria Infirmaries and also in the several Hospitals for special branches of Medicine. Honours and other advanced courses are provided at the University. The medical and scientific laboratories are open to research workers. In regard to the Faculties generally it may be stated that graduates are permitted to attend any of the University classes for purposes of higher study. They may also engage in specific researches. The new degree of Doctor of Philosophy (Ph.D.) has been instituted for advanced students admitted to courses of research.

**Museums, Learned Societies.—**

**Hunterian Museum.**—This Museum was founded by the eminent William Hunter, M.D., who bequeathed to the University his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens and archeological relics, and also a building for their reception and preservation.

With Dr. Hunter's collections there are incorporated the University collection of Roman inscriptions from the Antonine Vallum, and many important donations which have, from time to time, been received from friends of the University, as well as valuable additions purchased by the University.

There are a great many learned societies connected with the University, including: The Medico-Chirurgical Society; The Dialectic Society; The Engineering Society; The Physical Society; The Geological Society, etc.

**The University Library** was founded in the fifteenth century. The collection of books numbers over 200,000. *Librarian:* Vacant. *Sub-Librarian:* Mungo Ferguson, M.A.

**AFFILIATED INSTITUTIONS.**

Royal Technical College, Glasgow.

**THE ROYAL TECHNICAL COLLEGE, Glasgow. (1796.)**

*Terms:* Two per year—September to April, and April to July.  
*Students:* 981 day students, and 2,178 evening students.  
*Budget:* Normal Income and Expenditure about £37,000.

**OFFICIALS.**

*Chairman of the Governors.*—Sir George Beilby, LL.D., D.Sc., F.R.S.  
*Director.*—H. Fitton Stockdale, LL.D., F.R.S.E.

**Degrees.**—Undergraduates are presented for degrees in Applied Science of the University of Glasgow.

# PROFESSORS.

## Professors :

J. Miller, *Mathematics*.  
J. Muir, *Natural Philosophy*.  
T. Gray, *Technical Chemistry*.  
F. J. Wilson, *Inorganic and Analytical Chemistry*.  
J. M. Heilbron, *Organic Chemistry*.  
C. H. Desch, *Metallurgy*.  
J. G. Longbottom, *Mechanics*.  
G. Moncur, *Civil Engineering*.  
A. L. Mellanby, *Mechanical Engineering*.  
M. Maclean, *Electrical Engineering*.  
D. Burns, *Mining Engineering*.  
C. Gourlay, *Architecture and Building*.

## Lecturers :

J. Paul, *Mathematics*.  
S. J. Murray, "  
J. Hunter, "  
D. Miller, "  
W. G. Burrell, "  
D. McPhie, "  
J. S. Rankin, *Natural Philosophy*.  
T. B. Duncan, *Natural Philosophy*.  
J. G. Cameron (Miss), "  
G. E. Allan, "  
D. B. McQuistan, "  
M. M. J. Sutherland (Miss), *Chemistry*.  
J. A. Cranston, *Chemistry*.  
J. E. Hopper, "  
P. Gordon, "  
J. Leslie, "  
J. M. Cooper, "  
G. S. Cruikshanks, *Technical Chemistry*.  
A. B. Steven, *Bleaching, Dyeing, Calico printing and finishing*.  
T. H. P. Heriot, *Sugar Manufacture*.  
D. Houston, *Tanning*.  
J. McLeod, *Gas Manufacture*.  
J. McGhee, *Gas Distribution*.

## Lecturers—Continued :

W. C. Gray, *Metallurgy*.  
J. W. Donaldson, *Metallurgy*.  
W. Blackadder, *Mechanics*.  
J. Ramsay, "  
A. I. Nicholson, "  
D. Clark, *Civil Engineering*.  
G. Thomson, *Sanitary Engineering*.  
W. A. Macartney, *Municipal Engineering and Town Planning*.  
L. P. Lewis, *Railway Signalling*.  
A. M. Persom, *Mechanical Engineering*.  
W. R. Chisholm, *Drawing*.  
A. E. McCaw, *Motor Car Engineering*.  
D. J. Mackellar, *Electrical Engineering*.  
O. M. Salzmann, "  
J. Murray, "  
J. Luke, *Wireless Telegraphy*.  
W. B. Hird, *Dynamo Design*.  
R. B. Mitchell, *Wiring and Fitting*.  
J. Sim, *Mining Engineering*.  
E. J. Edwards, *Economic Geology*.  
W. M. Gray, *Naval Architecture*.  
J. Houston, *Architecture and Building*.  
T. Brown, "  
J. L. Mackinnon, *Builders' Quantities*.  
D. Ellis, *Botany and Bacteriology*.  
W. Zamorska (Miss), *Botany and Bacteriology*.  
W. Watson, *Textile Manufacture*.  
W. H. Cairns, "  
(Vacant), *Hosiery Manufacture*.  
C. H. Brown, *Navigation*.  
A. McDonald, "  
W. Hamilton, "  
W. M. Gray, "  
(Vacant), *Baking*.  
A. Macdonald, *Naval Signalling*.  
H. C. Miller, *History and Theory of Music*.

**Post-Graduate Courses** are offered in all the principal Departments.

The **Library** contains about 20,000 volumes, devoted almost entirely to works on Science and Technology. *Librarian* : P. Bennett.

## ROYAL FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW. (1599.)

### OFFICIALS.

*President*.—Dr. A. Freeland Fergus.

*Visitor*.—Dr. W. G. Dun.

*Treasurer*.—Dr. George McIntyre.

*Hon. Librarian*.—Dr. E. H. L. Oliphant.

The Royal Faculty grants a Licence for Dental Surgery, and in co-operation with the Royal Colleges of Physicians of Edinburgh and the Royal College of Surgeons of Edinburgh grants a Licence to practice in Medicine and Surgery, and also a Diploma in Public Health. The Royal Faculty also grants a Fellowship.

The **Library** contains about 100,000 volumes, chiefly Medical, with a fair proportion of local books. *Librarian* : Walter Hurst, F.L.A.



**THE WEST OF SCOTLAND AGRICULTURAL COLLEGE, Glasgow. (1899.)**

*Terms* : Winter Session in Glasgow.  
Summer Session in Kilmarnock.  
*Students* : 285.

**OFFICIALS.**

*Principal*.—W. G. R. Paterson, B.Sc., N.D.A.  
*Secretary*.—W. Cuthbertson, M.B.E., F.R.S.E., F.E.I.S.  
**Diplomas conferred**.—C.D.A., C.D.D., C.D.F. No Hoods.

**PROFESSORS.**

W. G. R. Paterson, <i>Agriculture</i> .		R. H. Leitch, <i>Dairying</i> .
A. N. McAlpine, <i>Botany</i> .		R. J. Drummond, <i>Practical Dairy</i>
R. A. Berry, <i>Chemistry</i> .		<i>Work</i> .

20 Lecturers.

*Extension Staff* : 12 Lecturers; 11 Instructresses.

**GOLDEN (Colorado).**

**COLORADO SCHOOL OF MINES, Golden, Colorado. (1874.)**

The Colorado School of Mines is a high-grade technical school that gives only one course: Mining Engineering, in four groups—Metal Mining, Coal Mining, Metallurgy, and Mining Geology—all leading to the degree of Engineer of Mines. The Course is four years in length.

*Terms* : Two semesters. *Students* : 279 in 1918-19.  
*Budget* : \$120,000.00 annually.  
*President*.—Victor C. Alderson, Sc.D.

**PROFESSORS.**

**Professors:**

I. A. Palmer, *Metallurgy*.  
L. S. Grant, *Mining*.  
J. C. Roberts, *Coal Mining*.  
J. L. Morse, *Mechanical Engineering*.  
A. E. Bellis, *Physics*.  
A. P. Little, *Electrical Engineering*.  
F. M. Van Tuyl, *Geology and Mineral-ogy*.  
T. O. Walton, *Mathematics*.  
J. S. Jaffa, *Mining Law*.  
Major G. C. Dobson, *Military Science and Tactics*.

**Associate Professors :**

J. Underhill, *Mining*.  
C. W. Botkin, *Chemistry*.  
J. F. O'Byrne, *Descriptive Geometry and Modime Design*.

**Assistant Professors :**

W. J. Robinson, *Geology and Mineral-ogy*.  
J. F. Seiler, *Civil Engineering*.  
L. D. Roberts, *Chemistry*.  
S. Z. Krumm, *Mining and Metal-lurgy*.  
1 Instructor.

**Post-Graduate** work is offered.

**Institutes and Societies.**—

The American Institute of Mining and Metallurgical Engineers.  
The United States Bureau of Mines.

**Library** of 15,000 volumes.

**GORDON COLLEGE.** See RAWALPINDI.

**GORDON MEMORIAL COLLEGE.** See KHARTOUM.

**GOUCHER COLLEGE.** See BALTIMORE.

**GRAHAMSTOWN (S. Africa).****RHODES UNIVERSITY COLLEGE**, Grahamstown, Union of South Africa. (1904.)

A college of the Federal "University of South Africa."

*Terms* : Four per year.*Students* : 161.**OFFICIALS.***Chairman*.—The Right Rev. The Bishop of Grahamstown.*Vice-Chairman*.—H. Fitchat, J.P.*Registrar*.—Lt.-Col. H. Greener, D.S.O.**Degrees conferred.**—(1) *In the Faculty of Arts*: B.A., M.A., D.Litt., Ph.D., B.D., D.D., Mus.Bac., Mus.M., Mus.Doc.(2) *In the Faculty of Science*: B.Sc., M.Sc., D.Sc., M.B., B.S., M.S., M.D.(3) *In the Faculty of Law*: LL.B., LL.M., LL.D.**PROFESSORS.**W. M. Smail, *Latin*.C. W. Bowles, *Greek*.A. S. Kidd, *English*.G. F. Dingemans, *Dutch*.H. S. Bodmer, *French*.A. R. Lord, *Philosophy*.D. Williams, *Pure Mathematics*.R. W. Varder, *Physics*.G. E. Cory, *Chemistry*.E. H. S. Schwarz, *Geology*.E. Schorland, *Botany*.J. E. Duerden, *Zoology*.

12 Lecturers.

**Libraries**.—Rhodes College Library. *Hon. Librarian* : H. S. Bodmer.**GRAND FORKS (N. Dakota).****THE UNIVERSITY OF NORTH DAKOTA**, Grand Forks, N. Dakota. (1883.)

The control of the University is vested in a State Board of Regents, five in number, appointed by the Governor of the State.

It has an endowment from land of \$1,721,262, while its campus, buildings, and equipment are valued at \$904,997, and its income for the biennium 1919-20 amounts to \$545,699.

The administrative and instructional staff number 146, representing in their preparation 46 different colleges and universities.

It has 1,500 alumni.

In the classified list of universities and colleges in America published by the U.S. Bureau of Education (1913) the University of North Dakota is placed in the first class.

Its graduates are received with full credit at all the larger American Universities, and it is included in the list of the Association of American Universities of those institutions whose degrees are recognized by the European Universities.

The business administration of the University is thoroughly organized along modern lines, with a budget system in full operation and skilfully handled.

The educational administration maintains sound ideals of scholarship and service. The faculty represents careful selection for teaching ability as well as scholarship.

*Terms* : Two semesters of 18 weeks each, and Summer Session of 6 weeks.*Students* : 1,290.*Budget* (1919-20):

Annual Income, exclusive of University Commons and Trust							
Funds	..	..	..	..	..	..	\$337,430
Annual Expenditures:							
Salaries	..	..	..	..	..	..	\$237,525
Equipment	..	..	..	..	..	..	9,675
General Expenses	..	..	..	..	..	..	84,910
Total	..	..	..	..	..	..	\$332,110

OFFICIALS.

*President.*—Thomas F. Kane, Ph.D., LL.D.  
*Dean of College of Lib. Arts.*—Vernon P. Squires, M.A., Litt.D.  
*Dean of School of Education.*—Joseph Kennedy, M.A., LL.D.  
*Dean of School of Medicine.*—Harley E. French, M.S., M.D.  
*Dean of School of Law.*—G. Fitch Wells, LL.B., LL.D.  
*Dean of College of Engineering and School of Mines.*—Earle J. Babcock, B.S., Sc.D.  
*Registrar and Secretary of Faculty.*—H. N. Tuttle.  
*Business Manager.*—J. Wallace Wilkerson.

**Degrees conferred.**—B.A., B.S., LL.B., B.S. in C.E., B.S. in E.M., B.S. in M.E. or E.E., B.S. in E.

*Higher Degrees.*—The degree of M.A. or M.S. is conferred upon those who hold the degree of B.A. or B.S., and who have completed in addition a year of graduate work.

A Student who has received the degree of B.S. in one of the Engineering courses may receive the degree of C.E., M.E., E.E., or E.M. on the completion of an additional year of study in the respective fields.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

G. A. Abbott, *Chemistry*.  
 W. G. Bek, *German*.  
 H. R. Brush, *Romance Languages*.  
 G. R. Davies, *History and Sociology*.  
 J. M. Gillette, *Sociology*.  
 R. R. Hitchcock, *Mathematics*.  
 H. E. Haxo, *Spanish*.  
 G. E. Hult, *Classical Languages*.  
 O. G. Libby, *History*.  
 B. J. Spence, *Physics*.  
 V. P. Squires, *English Language and Literature*.  
 J. Tingelstad, *Scandinavian Languages and Literature*.  
 E. T. Towne, *Economics and Political Science*.  
 R. T. Young, *Zoology*.

Assistant Professors :

E. X. Anderson, *Chemistry*.  
 H. Doak, *English*.  
 E. L. Fulton (Miss), *English*.  
 H. E. Haxo, *Romance Languages*.  
 A. D. Keator, *Library Science*.  
 N. E. Pfeiffer (Miss), *Botany*.  
 J. A. Taylor, *English*.  
 H. C. Trimble, *Chemistry*.  
 P. J. Davis, *Physical Education for Men*.  
 H. F. Jones, *English*.  
 W. E. Sayre, *Manual Acts*.  
 J. W. Taylor, *History*.

SCHOOL OF MEDICINE.

Professors :

A. D. Bush, *Physiology*.  
 H. E. French, *Anatomy*.  
 B. J. Clawson, *Pathology*.

Assistant Professor :

A. G. Long, *Pathology*.

COLLEGE OF ENGINEERING.

Professors :

E. J. Babcock, *Mining*.  
 A. J. Becker, *Applied Mathematics*.  
 E. F. Chandler, *Civil Engineering*.  
 D. R. Jenkins, *Electrical Engineering*.  
 A. G. Leonard, *Geology*.  
 R. L. Rhodes, *Mechanical Engineering*.  
 H. E. Simpson, *Physiographic Geology*.

Assistant Professors :

L. C. Harrington, *Mining*.  
 F. W. Bentley, *Mechanical Drawing and Descriptive Geometry*.

LAW SCHOOL.

Professors :

R. W. Cooley, *Law*.  
 G. F. Wells, „  
 H. E. Willis, „

Assistant Professor :

L. Vold, *Law*.

SCHOOL OF EDUCATION.

Professors :

J. Kennedy, *Education*.  
 A. J. Ladd, „  
 C. C. Schmidt, *Educational Methods*.  
 J. W. Todd, *Psychology*.

Assistant Professors :

M. Van Hoesen (Miss), *Home Economics*.  
 O. E. Christensen, *Art and Design*.  
 N. Martindale (Miss), *Physical Education for Women*.  
 34 Instructors and Assistants and 8 Lecturers.

**Post-Graduate Courses.**—The Graduate Department includes in a single organization the advanced work of all the colleges and schools of the University which offer courses leading to higher degrees. Its purpose is to stimulate original research and high scholarship beyond the scope of the ordinary undergraduate courses. The administration of the department is entrusted to a committee on graduate work.

Several fellowships and scholarships are available for graduate study.

**Institutes, Museums, Learned Societies.**—

The University Museum, containing botanical, zoological, and geological collections.

The University has under its direction:

The North Dakota State Geological Survey.

A Special Meteorological Station of the U.S. Weather Bureau.

The Mining Experiment Station.

The North Dakota Biological Station.

The North Dakota Public Health Laboratory, with three branch laboratories.

Chapter of Phi Beta Kappa (National Scholastic Honor Society).

Branch of Association of Collegiate Alumnae.

**Libraries.**—

General University Library, 55,000 volumes.

Law Library, 9,500 volumes. *Librarian*: A. D. Keator, B.S., B.L.S. *Reference Librarian*: Miss J. M. Budge, B.A.

**AFFILIATED INSTITUTION.**

North Dakota Wesley College (formerly the Red River Valley University).

**GREENWICH OBSERVATORY.** *See* LONDON.

**GUAM ISLAND.**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—C. W. Edwards.

**GUELPH (Ontario).**

**ONTARIO AGRICULTURAL COLLEGE,** Guelph, Ontario, Canada.

Affiliated with the University of Toronto.

*Terms*: Two per year.

*Students*: 1,000 average.

**OFFICIALS.**

*President.*—G. C. Creelman, B.S.A., LL.D.

*Bursar.*—S. Springer.

*Secretary.*—S. H. Gandier, B.S.A.

**Degrees conferred.**—B.S.A., B.Sc. (Agr.).

**PROFESSORS.**

**Professors:**

H. H. Dean, *Dairy Husbandry.*

C. A. Zavitz, *Field Husbandry.*

J. H. Reed, *Veterinary Science.*

R. Harcourt, *Chemistry.*

M. U. Watson (Miss), *Home Economics.*

J. Evans, *Manual Training.*

C. J. S. Bethune, *Entomology and Zoology.*

W. R. Graham, *Poultry Husbandry.*

J. W. Crow, *Horticulture.*

J. E. Howitt, *Botany.*

**Professors—Continued:**

D. H. Jones, *Bacteriology.*

O. J. Stevenson, *English.*

W. Toole, *Animal Husbandry.*

W. C. Blackwood, *Physics.*

F. E. Millen, *Apiculture.*

**Associate Professors:**

L. Caesar, *Entomology.*

W. J. Squirrel, *Field Husbandry.*

J. P. Sackville, *Animal Husbandry.*

21 Lecturers, 11 Demonstrators, 5

Instructors.

**Library.**—The Massey Library, 28,000 volumes. *Librarian*: Miss J. Gardiner.



**ENTOMOLOGICAL SOCIETY OF ONTARIO, Guelph, Ontario, Canada.**

*President.*—Arthur Gibson.

*Secretary-Treasurer.*—A. W. Baker.

The Entomological Society of Ontario was founded in 1863, at Toronto, by William Saunders (subsequently Director of the Experimental Farms of the Dominion of Canada,) and the Rev. C. J. S. Bethune (afterwards Head Master of Trinity College School, Port Hope, and Professor of Entomology in the Ontario Agricultural College, Guelph). There were 25 original members. Prof. H. H. Croft, of the Toronto University, was the first President, and W. Saunders, Secretary-Treasurer. In 1868 the Society began the publication of the *Canadian Entomologist*, a monthly magazine of systematic and popular Entomology, which was edited by Messrs. Bethune and Saunders in turn for over forty years, and is now in its fifty-first volume, edited by Prof. E. M. Walker of Toronto.

In 1870 the Society issued its first Annual Report on Economic Entomology, and has continued the publication ever since. In 1871 the Society was incorporated by the Legislature of Ontario and voted an annual grant, amounting of late years to \$1,000. Branches have been formed in Montreal, Toronto, British Columbia, and Nova Scotia, and the membership covers all the Provinces of the Dominion from the Atlantic to the Pacific. Its headquarters (for many years in London, Ontario) are now at the Guelph Agricultural College.

**GUILDFORD.**

**SURREY ARCHAEOLOGICAL SOCIETY, Castle Arch, Guildford.**

**OFFICIALS.**

*President.*—The Right Hon. Lord Ashcombe, Lord-Lieutenant of Surrey.

*Hon. Secretary.*—H. E. Malden, M.A.

**Publications.**—Annual volumes of Collections. Occasional volumes extra.  
**Museum and Library** at Guildford.

**GUJRANWALA (Punjab).**

**GURU NANAK KHALSA COLLEGE, Gujranwala, Punjab.**

Affiliated to the University of the Punjab, Lahore.

**OFFICIALS.**

*President.*—S. Gopal Singh, Reis.

*Principal.*—P. B. Kewalramani.

*Secretary.*—S. Narain Singh, B.A.

**PROFESSORS.**

**Professors :**

P. B. Kewalramani, *Philosophy and History.*

S. T. Singh, *Theology and English.*

S. S. Singh, *Sanskrit.*

**Library.**—The College Library.

**Professors—Continued :**

M. A. Jabbar, *Arabic and Persian.*

L. A. Dass, *Mathematics and English.*

**Assistant Professor :**

S. R. Singh, *English and Divinity.*

**Librarian :** S. P. Singh.

**HALIFAX (Nova Scotia).**

**DALHOUSIE UNIVERSITY, Halifax, Nova Scotia. (1918.)**

*Sessions :* One of about thirty-two weeks' duration.

*Students (1919-20):* 611.

*Budget (1918-19):* \$75,000.00.

**OFFICIALS.**

*President.*—A. Stanley Mackenzie, Ph.D., D.C.L., F.R.S.C.

*Dean of the College.*—Howard Murray, B.A., LL.D.

*Dean of the Faculty of Law.*—Donald A. MacRae, Ph.D.

*Secretary of the Faculty of Medicine.*—D. Fraser Harris, M.D., D.Sc., F.R.S.S.E., and C.

*Dean of the Faculty of Dentistry.*—Frank Woodbury, D.D.S.

*Registrar of the Faculty of Arts and Science.*—Murray Maeneill, M.A.

*Adviser to Women Students of the University.*—Eliza Ritchie, B.L., Ph.D.

*Librarian of the University Library.*—A. MacMechan, Ph.D.

**Degrees conferred :***Degrees.*

	<i>Hoods.</i>
B.A. -	Black hood, lined with white silk, bordered with white fur.
M.A. -	Black hood, lined with crimson silk.
B.Sc. -	Black hood, lined with white silk, bordered with scarlet silk.
M.Sc. -	Black hood, lined with scarlet silk.
B.Mus. -	Black hood, lined with white silk, bordered with lavender silk.
Phm.B. -	Black hood, lined with white silk, bordered with dark blue silk.
LL.B. -	Black hood, lined with white silk, bordered with gold-coloured silk.
M.D., C.M. -	Black hood, lined with scarlet silk, bordered with white silk.
D.D.S. -	Black hood, lined with scarlet silk, bordered with gold-coloured silk.
LL.D. -	Black hood, lined purple silk.

**PROFESSORS.****Professors :**

- A. MacMechan, *English Language and Literature.*  
H. Murray, *Classics.*  
E. Mackay, *Chemistry.*  
H. P. Jones, *Modern Languages.*  
M. Macneill, *Mathematics.*  
H. L. Bronson, *Physics.*  
D. F. Harris, *Physiology.*  
J. E. Todd, *History and Political Economy.*  
J. N. Finlayson, *Civil Engineering.*  
H. L. Stewart, *Philosophy.*  
D. A. MacRae, *Constitutional and International Law.*  
Hon. B. Russell, *Contracts, Lecturer on Sales and Equity Jurisprudence.*  
M. A. Curry, *Obstetrics and Diseases of Women and Children.*  
M. Chisholm, *Clinical Surgery.*  
G. M. Campbell, *Clinical Medicine.*  
W. H. Hattie, *Mental Diseases.*  
L. M. Silver, *Medicine and Clinical Medicine.*  
M. A. B. Smith, *Clinical Medicine.*  
J. Stewart, *Surgery.*

**Professors—Continued :**

- A. F. Buckley, *Materia Medica.*  
E. V. Hogan, *Surgery and Clinical Surgery.*  
H. K. McDonald, *Clinical Surgery*  
A. G. Nicholls, *Pathology and Bacteriology.*  
J. Cameron, *Anatomy.*  
F. Woodbury, *Prosthetic Dentistry and History, Ethics and Jurisprudence.*  
A. W. Cogswell, *Dental Pathology and Therapeutics.*  
F. W. Ryan, *Operative Dentistry.*  
G. K. Thomson, *Crown and Bridge Work, Ceramics and Hygiene.*  
S. G. Ritchie, *Dental Anatomy and Comparative Dental Anatomy.*  
W. W. Woodbury, *Orthodontia.*  
A. F. Buckley, *Materia Medica.*

**Associate Professor :**

- W. Bruce Almon, *Obstetrics.*

**Assistant Professors :**

- D. S. McIntosh, *Geology.*  
C. Moore, *Biology.*  
39 Lecturers, 3 Instructors, 5 Demonstrators, 2 Examiners.

**Post-Graduate Courses.**—Leading to M.A., and M.Sc.

**Museums.**—Museum of Natural History, Geology, and Indian Antiquities contains valuable collections.

**Libraries.**—

University Library contains 20,000 volumes and 5,000 pamphlets.

Law Library contains 8,000 volumes.

**AFFILIATED INSTITUTIONS.**

- Presbyterian College, Halifax.  
Prince of Wales College at Charlottetown, P.E.I.  
Halifax Conservatory of Music.  
The Maritime College of Pharmacy, Halifax.  
Halifax Ladies' College.  
Convent of the Sacred Heart, Halifax.  
Mount St. Vincent Academy, Halifax.

## HAMILTON (New York).

COLGATE UNIVERSITY, Hamilton, New York. (1819.)

Terms : Two semesters.

Students : 550.

### OFFICIALS.

President.—Elmer B. Bryan, LL.D., L.H.D.

Vice-President.—Melbourne S. Read, Ph.D.

Dean of the College.—William H. Crawshaw, Litt.D., LL.D.

Dean of the Theological Seminary.—John F. Vichert, D.D.

Degrees conferred.—A.B., B.S., Th.B., A.M., M.S., B.D.

### PROFESSORS.

#### FACULTY OF THE COLLEGE.

##### Professors :

M. S. Read, *Psychology and Education*.

J. M. Taylor, *Mathematics*.

J. F. McGregory, *Chemistry*.

W. H. Crawshaw, *General Literature*.

J. Greene, *Latin*.

R. W. Moore, *German Language and Literature*.

A. P. Brigham, *Geology*.

W. M. Chester, *Biology*.

C. D. Child, *Physics*.

F. C. Ewart, *Romance Languages*.

E. C. Huntington, *Physiology and Hygiene*.

E. W. Goodhue, *Economics and Socio-*

F. H. Allen, *History and Politics*.

E. W. Smith, *English Literature and Public Speaking*.

A. E. Alton, *Biblical Literature*.

F. C. French, *Philosophy*.

W. H. Hoerrner, *Music*.

##### Associate Professors :

F. L. Shepardson, *Greek*.

A. W. Smith, *Mathematics*.

R. B. Smith, *Chemistry*.

A. B. Stewart, *Mathematics (Engineering)*.

H. O. Whitnall, *Mineralogy and Economic Geology*.

##### Associate Professors—Continued :

R. W. Foley, *Economics and Sociology*.

W. G. Spencer, *Latin*.

H. G. Good, *Psychology and Education*.

W. F. Langworthy, *Biology*.

F. Mason Jones, *Romantic Languages*.

R. G. Ingraham, *Rhetoric*.

##### Assistant Professors :

E. P. Sisson, *Mathematics*.

J. A. Lahey, *Chemistry*.

F. A. MacIntyre, *History*.

Lt.-Col. J. Ballantine, *Director of Military Instruction*.

#### FACULTY OF THE THEOLOGICAL SEMINARY.

##### Professors :

W. H. Maynard, *Ecclesiastical History*.

D. F. Estes, *New Testament Interpretation*.

G. R. Berry, *Old Testament Interpretation*.

J. B. Anderson, *Ecclesiology and the English Bible*.

W. H. Allison, *Ecclesiastical History*.

J. F. Vichert, *Christian Theology*.

##### Professorial Lecturer :

W. M. Lawrence, *Christian Ethics*.

University Library, 85,000 bound volumes.

HAMILTON COLLEGE. See CLINTON.

## HANOVER (New Hampshire).

DARTMOUTH COLLEGE, Hanover, New Hampshire, U.S.A. (1769.)

Semesters : Two a year.

Students : 1,738.

### OFFICIALS.

President.—E. M. Hopkins, Litt.D., LL.D.

Dean.—Craven Laycock, A.M.

Registrar.—Howard Murray Tibbetts, A.M.

Degrees conferred.—A.B., B.S., A.M., M.S., C.E., M.C.S.,

## PROFESSORS.

## THE ACADEMIC FACULTY.

## Professors :

- E. J. Bartlett, *Chemistry*.  
 L. B. Richardson, *Chemistry*.  
 G. D. Lord, *Classical Archeology*.  
 C. D. Adams, *Greek Language and Literature*.  
 C. A. Proctor, *Physics*.  
 C. R. Lingley, *History*.  
 E. F. Clark, *German*.  
 W. Patten, *Zoology*.  
 H. D. Foster, *History*.  
 F. P. Emery, *English*.  
 J. H. Gerould, *Zoology*.  
 R. H. Jordan, *Education*.  
 W. A. Robinson, *Political Science*.  
 H. D. Dozier, *Economics*.  
 M. Keir, *Economics*.  
 L. H. Dow, *French Language and Literature*.  
 H. E. Burton, *Latin Language and Literature*.  
 A. K. Hardy, *German*.  
 J. M. Poor, *Astronomy*.  
 W. A. Adams, *German*.  
 G. F. Hull, *Physics*.  
 W. K. Stewart, *Comparative Literature*.  
 P. O. Skinner, *Romance Languages*.  
 C. E. Bolser, *Organic Chemistry*.  
 J. W. Bowler, *Hygiene and Physical Education*.  
 N. E. Gilbert, *Physics*.  
 C. C. Stewart, *Physiology*.  
 J. W. Goldthwait, *Geology*.  
 W. H. Sheldon, *Intellectual and Moral Philosophy*.  
 C. N. Haskins, *Mathematics*.  
 C. H. Page, *English*.  
 J. W. Young, *Mathematics*.  
 C. A. Phillips, *Economics*.  
 F. M. Anderson, *History*.  
 H. T. Moore, *Psychology*. [Science.  
 J. P. Richardson, *Law and Political*  
 W. H. Wood, *Biblical History and Literature*.  
 L. B. McWhood, *Musical*.  
 A. H. Washburn, *International Law*.  
 E. B. Woods, *Sociology*.

## Assistant Professors :

- L. S. Hastings, *Rhetoric and Oratory*.  
 A. H. Chivers, *Botany*.  
 L. Griggs, *Zoology*.  
 A. H. Basye, *History*.  
 F. J. Neef, *German*.  
 R. D. Beetle, *Mathematics*.  
 E. R. Greene, *Romance Languages*.  
 F. L. Childs, *English*.  
 R. W. Jones, *German*.  
 H. L. Hillman, *Physical Education*.  
 K. A. Robinson, *English*.  
 L. D. White, *Political Science*.  
 W. S. Messer, *Latin*.

## Assistant Professors—Continued :

- W. Shumway, *Biology*.  
 R. C. Nemial, *Latin*.  
 A. B. Meservey, *Physics*.  
 W. C. Shaw, *Public Speaking*.  
 P. S. Dow, *Graphics and Engineering*.  
 E. G. Bill, *Mathematics*.  
 F. E. Guyer, *French*.  
 F. M. Morgan, *Mathematics*.  
 G. B. Zug, *Modern Art*.  
 D. Lambuth, *English*.  
 L. C. Mathewson, *Mathematics*.  
 S. G. Patterson, *Romance Languages*.  
 A. J. Scarlett, *Chemistry*.  
 W. K. Wright, *Philosophy*.  
 C. H. Forsyth, *Mathematics*.  
 L. L. Silverman ,,

## THE MEDICAL FACULTY.

## Professors :

- G. D. Frost, *Clinical Medicine*.  
 J. M. Gile, *Physical Diagnosis and Clinical Surgery*.  
 P. Bartlett, *Surgery*.  
 H. N. Kingsford, *Pathology and Bacteriology*.  
 F. P. Lord, *Anatomy*.

## Assistant Professors :

- K. N. Atkins, *Bacteriology*.  
 O. B. Gilbert, *Pharmacology*.  
 1 Instructor.

## THE THAYER SCHOOL FACULTY.

## Professors :

- C. A. Holden, *Civil Engineering*.  
 F. E. Austin, *Electrical Engineering*.  
 R. R. Marsden, *Civil Engineering*.  
 1 Instructor.

## Assistant Professor :

- A. P. Richmond, *Civil Engineering*.

## THE TUCK SCHOOL FACULTY.

## President :

- E. M. Hopkins, Litt.D., LL.D.

## Dean :

- W. R. Gray.

## Secretary :

- G. H. Tapley, M.C.S.

## Professors :

- H. S. Person, *Business Organization and Management*.  
 W. R. Gray, *Accounting*.  
 W. H. Murray, *Modern Languages*.  
 C. A. Phillips, *Banking*.  
 H. R. Wellman, *Marketing*. [tion.  
 N. G. Burleigh, *Business Organization*.

## Assistant Professor :

- R. Brackett, *Commercial Law*.

## Lecturer and Supervisor :

- J. P. Taylor, *Field Work, Commercial Executive Practice*.



**Post-Graduate Courses.**—For the degrees of A.M. and M.S.

**Museum.**—Butterfield Museum, containing Biological, Ethnological, and Geological Collections. *Curator* : J. W. Goldthwait.

**Libraries.**—

College Library of 150,000 volumes.

Reference Library of 10,000 volumes.

12 Departmental Libraries.

*Librarian* : N. L. Goodrich, A.M., B.L.S.

**HARPER ADAMS, AGRICULTURAL COLLEGE.** *See* NEWPORT.

## HARTFORD (Connecticut).

**TRINITY COLLEGE,** Hartford, Conn. (1823.)

The College was founded by Episcopalians largely as a protest against what, at the time, was regarded as the narrow sectarianism of Yale College, and in the charter was included a clause guaranteeing for ever the non-sectarian character of the institution. The College has always lived up to this section of its charter.

This is now past history, and acrimonious sectarian discussions and animadversions are out of date. The two colleges work together in harmony to further the cause of education.

*Terms* : From September to June. Recess of two weeks at Christmas, and one of ten days at Easter.

*Students* : Normally about 250.

*Budget* : \$120,000,000.

### OFFICIALS.

*President.*—Henry A. Perkins, M.A., E.E.

*Acting Secretary of the Faculty.*—F. Cole Babbitt, Ph.D.

*Registrar.*—Arthur Adams, Ph.D.

### Degrees conferred :

#### Degrees.

B.A.	-	-	Black stuff, edged with palatinate purple silk.
B.Sc.	-	-	Black stuff, edged with light blue silk.
Litt. B.	-	-	Black stuff, edged with russet brown silk.
B.D.	-	-	Black silk, edged with scarlet silk.
LL.B.	-	-	Black silk, edged with dark blue silk.
Mus.Bac.	-	-	Black silk, edged with pink silk.
M.A.	-	-	Black silk, lined with palatinate purple silk.
D.D.	-	-	Scarlet cloth, lined with black silk.
Litt.D.	-	-	Scarlet silk, lined with russet brown silk.
LL.D.	-	-	Scarlet silk, lined with dark blue silk.
C.L.D.	-	-	Crimson silk, lined with black silk.
Mus.D.	-	-	White silk, lined with pink silk.
Ph.D.	-	-	Black silk, lined with purple silk.
M.D.	-	-	Scarlet silk, lined with maroon silk.

#### Hoods.

### PROFESSORS.

#### Professors:

Rev. J. J. McCook, *Modern Languages*.  
 R. B. Riggs, *Chemistry*.  
 F. C. Babbitt, *Greek Language and Literature*.  
 W. M. Urban, *Philosophy*.  
 H. A. Perkins, *Physics*.  
 G. A. Kleene, *Economics*.  
 O. A. Fischer, *Mathematics and Astronomy*.  
 C. E. Rogers, *Civil Engineering*.  
 H. C. Swan, *Physiology and Physical Training*.  
 Adams, *English*.

#### Professors—Continued :

Ler. C. Barret, *Latin Language and Literature*.  
 F. W. Carpenter, *Biology*.  
 S. L. Galpin, *Romance Languages*.  
 E. R. Humphrey, *History and Political Science*.  
 O. Shepard, *English Literature*.

#### Assistant Professors :

H. M. Dadouisan, *Physics*.  
 E. C. Stone, *Chemistry*.  
 2 Instructors.

**Post-Graduate Courses.**—Almost every year a few special courses are arranged for resident students, but no instruction for graduate students is regularly offered.

**Museums of Biology, Geology, and Mineralogy.**

**Library.**—Over 85,000 volumes and 45,000 pamphlets. *Librarian:* Arthur Adams, Ph.D.

### HARTFORD SEMINARY FOUNDATION, Hartford, Conn.

Founded as Hartford Theological Seminary in 1834.

Reorganized as Hartford Seminary Foundation, 1913.

*Terms:* Two semesters.

*Students:* 120.

#### OFFICIALS.

*President of the Foundation.*—W. Douglas Mackenzie, D.D., LL.D.

*Dean of the Theological Seminary.*—M. W. Jacobus, D.D.

*Dean of the School of Pedagogy.*—E. H. Knight, D.D.

*Dean of the School of Missions.*—E. W. Capen, Ph.D.

*Secretary of the Foundation.*—C. S. Lane, D.D.

**Degrees conferred.**—S.T.B., Pd.B., S.T.M., Pd.M., S.T.D., Ph.D.

Hoods are lined with the colours of the Foundation, old gold; the colours of the borders are in accord with the system of American Universities for higher degrees.

#### PROFESSORS.

##### Professors:

W. S. Pratt, *Liturgics.*

M. W. Jacobus, *New Testament Exegesis.*

E. K. Mitchell, *Early Church History.*  
(Vacant), *Practical Theology.*

A. L. Gillett, *Apologetics.*

L. B. Paton, *Old Testament Exegesis.*

D. B. Macdonald, *Semitic Languages and Muhammadanism.*

E. H. Knight, *New Testament Language and Literature.*

(Vacant), *Psychology.*

W. D. Mackenzie, *Christian Theology.*

E. E. Nourse, *New Testament Theology.*

C. M. Geer, *Medieval and Modern Church History.*

O. M. Baxter (Miss), *Home Economics.*

##### Professors—Continued:

C. S. Lane, *Church History.*

J. D. Adam, *Practical Theology.*

W. H. Worrell, *Phonetics.*

E. W. Capen, *Sociology.*

A. J. W. Myers, *Pedagogy.*

L. Hodous, *Missions in China.*

W. C. Willoughby, *Missions in Africa.*

##### Associate Professors:

C. S. Thayer, *Bibliology.*

M. H. Ananikain, *History and Languages of Turkey.*

M. S. Platt (Mrs.), *Missionary Practice.*

K. L. Hill (Miss), *Missionary Practice.*

1 Extension Lecturer, 9 Instructors,  
20 Lecturers and 2 Tutors.

**Post-Graduate Courses.**—The seminary desires in every way to encourage the extension of theological study to four years and to provide for those who wish to specialize in any Department. Graduates of this or other seminaries have the privileges of tuition, rooms, scholarships, etc., enjoyed by undergraduates.

**Classification of Courses.**—Graduate Courses are of two kinds, Major Courses and Minor Courses. Major Courses are reckoned as equivalent to 90 hours of instruction; Minor Courses as equivalent to 30 hours. In addition to courses specifically offered to graduates, certain undergraduate courses may also be taken during the graduate year.

Courses are grouped in five departments, namely: Old Testament, New Testament, History, Systematics, Practics. This grouping may not under all circumstances be rigidly adhered to. For example, certain courses that are grouped under Systematics might be reckoned to History, etc.

**Museum.**—The main portion of the Museum comprises the collection of missionary curiosities, for many years on exhibition in the rooms of the American Board of Commissioners for Foreign Missions at Boston, which has now been deposited with the Seminary. It includes a great variety of objects illustrating the customs and worship of races among which missions have been established. This collection has been arranged geographically, and forms a Missionary Museum of unusual attractiveness.

**Library.**—The Case Memorial Library is equalled by few, if any, theological libraries of this country. It has secured the important published collections of Greek Papyri and Inscriptions and the allied treatises and periodicals, which furnish abundant material for the study of Hellenistic Greek. Adequate provision has also been made for work in the Christian Oriental languages : Syriac, Ethiopic, and Coptic.

**AFFILIATED INSTITUTIONS.**

Hartford Theological Seminary.  
Hartford School of Religious Pedagogy.  
Kennedy School of Missions.

**HARVARD UNIVERSITY.** *See* CAMBRIDGE (Mass.).

**HELWAN OBSERVATORY.** *See* CAIRO.

**HINDU COLLEGE.** *See* DELHI.

**HOBART (Tasmania).**

**THE UNIVERSITY OF TASMANIA,** Hobart, Tasmania. (1890.)

*Terms :* Four per year.

**OFFICIALS.**

*Chancellor.*—The Hon. Tetley Grant, C.M.G., M.A.  
*Vice-Chancellor.*—William Joshua Tilley Stops, LL.B.  
*Warden of Senate.*—George Wilson Waterhouse, B.A.  
*Vice-Warden of Senate.*—The Very Rev. Robert Snowdon Hay, B.A.  
*Registrar.*—Montague M. Ansell, B.A.

**Degrees conferred :**

*Degrees.*

*Hoods.*

- |       |     |   |
|-------|-----|---|
| B.A.  | - - | Black silk hood, with a two-inch lining of dark blue silk.                          |
| M.A.  | - - | Black silk hood, lined entirely with dark blue silk.                                |
| B.Sc. | - - | Black silk hood, with a two-inch lining of white silk.                              |
| M.Sc. | - - | Black silk hood, lined entirely with white silk.                                    |
| D.Sc. | - - | Black silk hood (as Doctor in Oxford University), lined entirely with white silk.   |
| LL.B. | - - | Black silk hood, with a two-inch lining of crimson silk.                            |
| LL.M. | - - | Black silk hood, lined entirely with crimson silk.                                  |
| LL.D. | - - | Black silk hood (as Doctor in Oxford University), lined entirely with crimson silk. |

**PROFESSORS.**

W. H. Williams, <i>Classics and English Literature.</i>	T. T. Flynn, <i>Biology.</i>
A. McAulry, <i>Mathematics.</i>	J. H. Mackay, <i>Engineering.</i>
D. G. McDougall, <i>Law.</i>	R. L. Dunbabin, <i>Classics.</i>
	9 Lecturers, 4 Student Assistants.

**ROYAL SOCIETY OF TASMANIA,** Hobart. (1843.)

The Royal Society of Tasmania is the oldest Scientific Society in Australasia.

*Patron.*—His Majesty the King.

*President.*—The Governor of Tasmania.

*Secretary and Librarian.*—Clive E. Lord.

**Publication.**—Papers and Proceedings.

**THE TASMANIAN MUSEUM AND ART GALLERY, AND BOTANICAL GARDENS**

Hobart. (1844.).

*Curator.*—Clive E. Lord.

*Superintendent of Gardens.*—John Wardman.

**THE TASMANIAN FIELD NATURALISTS' CLUB,** Hobart. (1904.)

*Secretary.*—Clive E. Lord.

**HONG KONG (China).****HONG KONG UNIVERSITY.** No particulars received.**ROYAL OBSERVATORY,** Hong Kong, China. (1883.)**British Colonial Observatory, 1883.**

Meteorological, Magnetical, and Time Observations.

Daily Weather Forecasts and Storm Warnings.

**OFFICIALS.***Director.*—T. F. Claxton, F.R.A.S.*Chief Assistant.*—C. W. Jeffries.*First Assistant.*—B. D. Evans.

7 Local Assistants and Telegraphists.

**Publications.**—

Daily Weather Map of the Far East for 6 a.m. (120th meridian time.)

Daily Weather Report.

Monthly Meteorological Bulletin.

Annual Report of the Director.

**HONOLULU (Hawaii).****FEDERAL EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Agronomist.*—J. M. Westgate.**BERNICE PAUAAHI BISHOP MUSEUM OF POLYNESIAN ETHNOLOGY AND NATURAL HISTORY.****OFFICIALS.***Acting Director.*—Dr. Herbert E. Gregory.*Director Emeritus and Curator of Anthropology.*—Dr. Wm. T. Brigham.*Honorary Curator of Mollusca.*—Dr. Wm. H. Dall.*Curator of Polynesian Ethnology.*—J. F. G. Stokes.*Curator of Pulmonata.*—Dr. C. M. Cooke.*Honorary Curator of Entomology.*—Otto H. Swezey.*Curator of Botany.*—C. N. Forbes.*Acting Librarian.*—Miss C. G. Dickerman.**Library.**—About 9,000 volumes. *Librarian:* Miss E. B. Higgins.**Publications.**—Occasional Papers, I.-VI. 1898; Memoirs, I.-VII., 1899; Miscellaneous, Nos. 1-5, 1892.**SUGAR PLANTERS' EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—H. P. Agee.**ILLINOIS UNIVERSITY.** See **URBANA.****INDIANA UNIVERSITY.** See **BLOOMINGTON.****INDORE (Central India).****INDORE CHRISTIAN COLLEGE,** Indore, Central India. (1884.)

Affiliated to the University of Allahabad.

*Terms:* Two a year.*Students:* 175.**OFFICIALS.***Principal.*—R. A. King, M.A., B.D., D.D.*Librarian.*—D. Ananten.**PROFESSORS.**A. A. Scott, *Metaphysics.*

|

H. W. Lyons., *Economics.*

6 Other Professors.

**Museum of Economics.**



## IOWA CITY (Iowa).

THE STATE UNIVERSITY OF IOWA, Iowa City, Iowa. (1847.)

Terms: Three, and a Summer Session.

Students: 3,707.

## OFFICIALS.

*President.*—Walter A. Jessup, Ph.D.*Secretary.*—William H. Bates.*Secretary University Senate.*—Elmer A. Wilcox, B.A.*University Examiner and Registrar.*—Herbert C. Dorcas, M.A.**Degrees conferred.**—B.A., B.S., LL.B., M.D., D.D.S., Ph.G., Ph.C., B.S. in Ph., B.E., B.S. in H.E., B.S. in Com., B.Mus., M.A., M.S., Ph.D., C.E., E.E., M.E.

## PROFESSORS.

## COLLEGE OF LIBERAL ARTS.

## Professors:

G. T. W. Patrick, *Philosophy*.  
 C. B. Wilson, *German*.  
 C. C. Nutting, *Zoology*.  
 E. W. Rockwood, *Chemistry*.  
 G. L. Houser, *Animal Biology*.  
 B. F. Shambaugh, *Political Science*.  
 B. Shimek, *Botany*.  
 F. H. Potter, *Latin*.  
 C. E. Seashore, *Psychology*.  
 H. G. Plum, *History*.  
 H. F. Wickham, *Entomology*.  
 E. D. Starbuck, *Philosophy*.  
 C. H. Weller, *Greek, History of Art*.  
 S. H. Bush, *Romance Languages*.  
 G. F. Kay, *Geology*.  
 R. B. Wylie, *Morphological Botany*.  
 M. C. Mumma, *Military Science and Tactics*.  
 G. W. Stewart, *Physics*.  
 C. A. Cumming, *Graphic and Plastic Arts*.  
 P. S. Peirce, *Economics*.  
 A. C. Trowbridge, *Geology*.  
 O. E. Klingaman, *Social Welfare*.  
 R. A. Wardall (Miss), *Home Economics*.  
 W. E. Hays, *Music*.  
 G. G. Benjamin, *History*.  
 F. E. Horack, *Political Science*.  
 B. T. Baldwin, *Child Welfare*.  
 A. Daniels (Miss), *Child Welfare*.  
 H. H. Jones, *Out-door Sports*.  
 H. L. Rietz, *Mathematics*.  
 H. Craig, *English*.  
 P. G. Clapp, *Music*.  
 B. L. Ullman, *Latin*.  
 A. M. Schlesinger, *History*.

## Associate Professors:

R. P. Baker, *Mathematics*.  
 P. Hunt, *English*.  
 G. N. Merry, *Public Speaking*.  
 L. Pelzer, *History*.  
 J. F. Reilly, *Mathematics*.  
 L. P. Sieg, *Physics*.  
 S. B. Sloan, *English*.  
 C. M. Case, *Sociology*.

## Associate Professors—Continued:

E. H. Lauer, *German*.  
 J. N. Pearce, *Chemistry*.  
 E. F. Piper, *English*.  
 M. A. Shaw, *English*.  
 E. N. S. Thompson, *English*.  
 C. F. Ward, *Romance Languages*.  
 A. O. Thomas, *Geology*.  
 N. R. Whitney, *Economics*.  
 C. E. Young, *Romance Languages*.  
 C. E. Cousins, *Romance Languages*.  
 L. C. Raiford, *Chemistry*.  
 H. L. Olin, *Chemistry*.  
 E. L. Waterman, *Public Health*.  
 F. A. Stromsten, *Animal Biology*.

## Assistant Professors:

M. C. Williams (Miss), *Psychology*.  
 H. R. Dill, *Zoology*.  
 R. H. Sylvester, *Psychology*.  
 W. L. Myers, *English*.  
 J. Van der Zee, *Political Science*.  
 J. C. Briggs, *Political Science*.  
 H. Larsen, *English*.  
 G. W. Hewlett, *Physics*.  
 J. H. Scott, *English*.  
 F. E. Haynes, *Sociology*.  
 C. M. Daley (Miss), *History*.  
 E. O. Dieterich, *Physics*.  
 P. A. Bond, *Chemistry*.  
 N. S. Aurner (Mrs.), *English*.  
 E. W. Chittenden, *Mathematics*.  
 J. S. Magnuson, *Latin*.  
 J. Runner, *Geology*.  
 C. H. Farr, *Botany*.  
 H. T. Nightingale, *Political Science*.  
 K. H. Porter, *Political Science*.

## SCHOOL OF COMMERCE.

## Professor:

N. A. Brisco, *Commerce* (Director).

## Associate Professors:

H. B. Whaling, *Transportation*.  
 J. F. Reilly, *Statistics*.  
 C. F. Kurtz, *Business Organization*.  
 R. A. Stevenson, *Commerce*.  
 J. H. Knight, *Economics*.

**Assistant Professor :**

C. W. Wassam, *Commerce*.  
 W. W. Jennings, *Commerce*.  
 E. W. Hills, *Commerce*.

**COLLEGE OF EDUCATION.****Professors :**

W. F. Russell, *Education*.  
 F. C. Ensign, "  
 E. Horn, "  
 C. L. Robbins, "

**Associate Professor :**

E. E. Lewis, *Education*.

**Assistant Professors :**

I. King, *Education*.  
 E. J. Ashbaugh, *Education*.  
 1 Lecturer, 10 Instructors.

**COLLEGE OF LAW.****Professors :**

D. O. McGovney.  
 E. A. Wilcox.  
 H. C. Horack.  
 P. Bordwell.  
 H. F. Goodrich.

**Associate Professors :**

R. M. Perkins.  
 F. H. Randall.

**COLLEGE OF APPLIED SCIENCE.****Professors :**

W. G. Raymond, *Civil Engineering*.  
 A. H. Ford, *Electrical Engineering*.  
 B. J. Lambert, *Structural Engineering*.  
 S. M. Woodward, *Theoretical and Applied Mechanics*.  
 J. B. Hill, *Electrical Engineering*.  
 F. G. Higbee, *Descriptive Geometry and Drawing*. [ing.  
 B. P. Fleming, *Mechanical Engineering*.

**Associate Professors :**

J. H. Dunlap, *Hydraulics and Sanitary Engineering*.  
 D. P. Gilmore, *Structural Engineering*.  
 R. B. Kittredge, *Railroad Engineering*.  
 S. H. Sims, *Mechanics*.  
 T. G. Caywood, *Descriptive Geometry and Drawing*.

**Assistant Professors :**

F. E. Holmes, *Mechanics and Hydraulics*.  
 G. J. Keller, *Mechanical Engineering*.  
 A. H. Holt, *Descriptive Geometry and Drawing*.

**COLLEGE OF MEDICINE, DENTISTRY, AND PHARMACY.****Heads of Departments :**

E. W. Rockwood, *Chemistry and Toxicology*.

**Heads of Departments—Continued :**

C. S. Chase, *Materia Medica and Pharmacology*.  
 W. R. Whites, *Obstetrics and Gynecology*.  
 L. W. Dean, *Ophthalmology, Oto-Laryngology, and Oral Surgery*.  
 F. T. Breene, *Consulting Oral Surgeon, Operative Dentistry and Therapeutics*.  
 H. Albert, *Pathology and Bacteriology*.  
 J. T. McClintock, *Physiology*.  
 H. J. Prentiss, *Anatomy and Histology*.  
 C. van Epps, *Therapeutics*.  
 C. P. Howard, *Internal Medicine*.  
 J. B. Kessler, *Dermatology*.  
 C. J. Rowan, *Surgery*.  
 A. H. Byfield, *Pediatrics*.  
 G. Royal, *Homeopathic Materia Medica and Therapeutics*.

**Professors :**

S. T. Orton, *Psychiatry*.  
 A. Steindler, *Orthopedics*.  
 W. F. Boiler, *Ophthalmology, Oto-Laryngology, and Oral Surgery*.  
 E. G. Birge, *Epidemiology Hygiene and Preventive Medicine*.  
 E. A. Rogers, *Clinical Dentistry, and Roentgenology*.  
 R. H. Volland, *Operative Technique and Oral Pathology*.  
 W. J. Teeters, *Pharmacy and Pharmacognosy*.  
 R. A. Fenton, *Oral Surgery*.

**Associate Professors :**

J. J. Lambert, *Anatomy and Histology*.  
 E. M. McEwen, "  
 R. A. Kneiler, *Pharmacy*.

**Assistant Professors :**

N. L. Beye, *Surgery*.  
 P. Reed, *Obstetrics and Gynecology*.  
 N. G. Alcock, *Genito-Urinary Surgery*.  
 H. A. Calhoun (Miss), *Pathology and Bacteriology*.  
 R. C. Coleman, *Gynecology and Obstetrics*.  
 C. B. McGlumphy, *Pathology and Bacteriology*.  
 R. B. Gibson, *Theory and Practice*.  
 Z. M. Cooper (Miss), *Pharmacy*.  
 J. J. Hinman, *Water and Sewage Analysis*.  
 A. W. Bryan, *Dental Therapeutics*.  
 H. F. Goodrich, *Pharmacy Law*.  
 A. L. Lane, *Military Science and Tactics*.  
 T. L. Patterson, *Physiology*.  
 H. O. Collins, *Superintendent University Hospital*.  
 W. J. McDonald, *Director of Student Health Department*.

In addition, there are 4 Lecturers, 12 Associates, 69 Instructors, and 50 Assistants.

**Post-Graduate Courses.**—

- (a) In all departments representing the Liberal Arts and Sciences.
- (b) In Medicine.
- (c) In Engineering.
- (d) In Education.
- (e) In Commerce.

**Museums.**—Anatomical and Histological Museum, Museum of Art and Archeology, Botanical Museum, Commercial Museum, Dental Museum, Geological Museum, Pathological Museum, Pharmaceutical Museum, Roman and Pompeian Museum, Zoological Museum.

**Libraries.**—

General University Library, 146,700 volumes. *Librarian* : Miss J. E. Roberts.  
Law Library, 23,712 volumes.

**IOWA ACADEMY OF SCIENCES.** *See* DES MOINES.

**IRELAND, NATIONAL UNIVERSITY OF.** *See* DUBLIN.

**ISABELLA THORBURN COLLEGE.** *See* LUCKNOW.

**ISLAMIA COLLEGE.** *See* LAHORE.

**ITHACA (New York).**

**CORNELL UNIVERSITY,** Ithaca, New York. (1865.)

*Terms* : Three a year.

*Students* : 3,505.

**OFFICIALS.**

*President.*—J. G. Schurman, A.M., D.Sc., LL.D.

*Comptroller.*—E. L. Williams.

*Secretary.*—W. Patterson.

**Degrees conferred.**—A.B., A.M., B.Com., LL.B., M.D., D.V.M., B.Sc., B.Arch., C.E., M.E., M.S., M.Arch., M.C.E., M.M.E., M.F., M.L.D., M.S.Agr., Ph.D.

**PROFESSORS.****COLLEGE OF ARTS AND SCIENCES.****Professors :**

F. Thilly, *Philosophy*.  
E. L. Nichols, *Physics*.  
G. L. Burr, *Medieval History*.  
C. E. Bennett, *Latin*.  
J. E. Creighton, *Logic and Metaphysics*.  
E. B. Titchener, *Psychology*.  
N. Schmidt, *Semitic Languages and*  
G. P. Bristol, *Greek*. [*Literature*.]  
W. F. Willcox, *Economics and Statistics*.  
L. M. Dennis, *Inorganic Chemistry*.  
J. E. Trevor, *Thermodynamics*.  
C. H. Hull, *American History*.  
W. R. Orndorff, *Organic and Physio-*  
*logical Chemistry*.  
W. D. Bancroft, *Physical Chemistry*.  
E. G. Merritt, *Physics*.  
C. V. P. Young, *Physical Culture*.  
A. T. Kerr, *Anatomy*.  
J. McMahon, *Mathematics*.  
J. H. Tanner, "  
F. Bedell, *Applied Electricity*.  
W. W. Rowlee, *Botany*.  
H. Ries, *Geology*. [*and Aesthetics*.]  
W. A. Hammond, *Ancient Philosophy*  
H. E. Dann, *Music*.  
E. Albee, *Philosophy*.

**Professors—Continued :**

B. F. Kingsbury, *Histology and Em-*  
S. Simpson, *Physiology*. [*bryology*.]  
M. W. Sampson, *English Literature*.  
W. Strunk, *English*.  
H. C. Elmer, *Latin*.  
C. L. Durham, "  
G. D. Harris, *Paleontology and Strati-*  
G. W. Cavanagh, *Chemistry*.  
J. S. Shearer, *Physics*.  
J. I. Hutchinson, *Mathematics*.  
V. Snyder, *Mathematics*.  
A. B. Faust, *German*.  
E. M. Chamot, *Sanitary Chemistry and*  
*Toxicology*. [*Chemistry*.]  
A. W. Browne, *Inorganic and Analytical*  
A. C. Gill, *Mineralogy and Petrography*.  
J. P. Bretz, *American History*. [*nology*.]  
J. G. Needham, *Entomology and Lim-*  
G. W. Herrick, *Economic Entomology*.  
G. N. Lauman, *Rural Economy*.  
S. P. Orth, *Political Science*.  
A. A. Young, *Economics and Finance*.  
J. A. Winans, *Public Speaking*.  
O. A. Johannsen, *General Biology*.  
J. F. Mason, *Romance Languages*.  
L. Cooper, *English Language and*  
*Literature*.  
A. W. Boesche, *German*.

**Professors—Continued :**

- P. R. Pope, *German*.  
 R. M. Ogden, *Education*.  
 G. L. Hamilton, *Romance Languages and Literatures*.  
 O. M. Leland, *Astronomy and Geodesy*.  
 H. J. Davenport, *Economics*.  
 C. Becker, *Modern European History*.  
 F. A. Barton, *Military Science and*  
 C. D. Child, *Physics*. [Tactics.  
 F. K. Richtmyer, *Physics*.  
 R. C. Gibbs, *Physics*.  
 D. English, *Economics and Accounting*.  
 P. Gaehr, *Physics*.

**Assistant Professors :**

- F. C. Prescott, *English*.  
 C. S. Northup " [Literatures.  
 E. Blaker, *Physics*. [Literatures.  
 O. G. Guerlac, *Romance Languages and*  
 H. D. Reed, *Neurology and Vertebrate*  
 J. Q. Adams, *English*. [Zoology.  
 F. R. Sharpe, *Mathematics*.  
 W. B. Carver " "  
 A. Ranum " "  
 H. L. Jones, *Greek*.  
 E. P. Andrews, *Archeology*.  
 D. C. Gillespie, *Mathematics*.  
 J. C. Bradley, *Entomology*.  
 O. D. Von Engeln, *Physical Geography*.  
 B. S. Monroe, *English*.  
 R. S. Saby, *Political Science*.  
 H. P. Weld, *Psychology*.  
 G. B. Muchmore, *Public Speaking*.  
 L. Pumpelly, *Romance Languages and*  
*Literatures*.  
 R. H. Keniston, *Romance Languages*  
*and Literatures*.  
 A. P. Usher, *Economics*.  
 R. P. Anderson, *Chemistry*.  
 W. A. Hurwitz, *Mathematics*.  
 J. B. Sumner, *Biochemistry*.  
 T. R. Briggs, *Physical Chemistry*.  
 A. H. Wright, *Zoology*.  
 A. A. Allen, *Ornithology*.  
 W. S. Foster, *Education*.  
 L. N. Broughton, *English*.  
 H. L. Reed, *Economics*.  
 A. M. Drummond, *Public Speaking*.  
 R. E. Somers, *Geology*.  
 J. T. Quarles, *Music*.  
 C. F. Craig, *Mathematics*.  
 F. W. Owens " "  
 C. C. Bidwell, *Physics*.  
 E. H. Kennard " "  
 A. H. Sweet, *English History*.  
 A. L. Andrews, *German*.  
 C. Sturgis, *Romance Languages*.  
 F. M. Smith, *English*.  
 A. R. Shadle, *Zoology*.  
 H. E. Howe, *Physics*.  
 E. L. Hunt, *Public Speaking*.  
 F. G. Wick (Miss), *Physics*.  
 48 Instructors, 53 Assistants.

**THE MEDICAL COLLEGE.**

(In the City of New York.)

**Professors :**

- G. Woolsey, *Clinical Surgery*.  
 J. C. Edgar, *Obstetrics and Clinical*  
 J. Ewing, *Pathology*. [Midwifery.  
 G. Lusk, *Physiology*.  
 F. S. Meara, *Therapeutics*.  
 R. A. Hatcher, *Pharmacology*.  
 C. R. Stockard, *Anatomy*.  
 L. A. Conner, *Medicine*.  
 W. J. Elser, *Bacteriology*.  
 S. R. Benedict, *Chemistry*.  
 C. L. Gibson, *Surgery*.  
 J. E. Winters, *Clinical Medicine*.  
 C. L. Dana " "  
 G. T. Elliott " "  
 F. Whiting, *Clinical Surgery*. "  
 E. L. Keyes " "  
 R. G. Reese " "  
 O. H. Schultze, *Medical Jurisprudence*.  
 A. S. Taylor, *Clinical Surgery*.  
 W. C. Thro, *Clinical Pathology*.  
 A. Lambert, *Clinical Medicine*.  
 C. E. Nammack, *Clinical Medicine*.  
 I. S. Haynes, *Clinical Surgery*.  
 W. B. Coley " "  
 J. Rogers " "  
 H. Smith " "  
 B. T. Lee " "  
 C. Wallace " "  
 H. Lilienthal " "  
 L. G. Cole, *Röntgenology*.  
 J. C. Torrey, *Hygiene*.  
 G. H. Kirby, *Clinical Medicine*.

**Associate Professors :**

- J. A. Hartwell, *Surgery and Clinical*  
 H. F. Swift, *Medicine*. [Surgery.  
 G. G. Ward, *Clinical Surgery*.  
 F. Kennedy, *Clinical Medicine*.

**Assistant Professors :**

- E. F. Du Bois, *Medicine*.  
 J. M. Hitzrot, *Clinical Surgery*.  
 J. F. Gudernatsch, *Anatomy*.  
 W. H. Sheldon, *Clinical Medicine*.  
 M. Goodridge, *Therapeutics*.  
 P. R. Turnure, *Clinical Surgery*.  
 C. Norris, *Pathological Anatomy*.  
 H. W. Frink, *Neurology*.  
 J. P. Hoguet, *Clinical Surgery*.  
 C. Eggleston, *Pharmacology*.  
 48 Instructors, 18 Clinical Instructors,  
 18 Assistants, 3 Lecturers.

**FACULTY OF MEDICINE.****Professors :** (In Ithaca.)

- A. T. Kerr, *Anatomy*.  
 W. R. Orndorff, *Organic Chemistry*.  
 B. F. Kingsbury, *Histology and Em-*  
 S. Simpson, *Physiology*. [bryology.

**Assistant Professor :**

- J. B. Sumner, *Biochemistry*.  
 5 Instructors, 3 Assistants.



# NEW YORK STATE VETERINARY COLLEGE.

## Professors :

- V. A. Moore, *Comparative Pathology*.  
 P. A. Fish, *Veterinary Physiology*.  
 G. S. Hopkins, *Veterinary Anatomy and Anatomical Methods*.  
 W. L. Williams, *Principles and Practice of Veterinary Surgery, Obstetrics, Zootechny, and Jurisprudence*.  
 D. N. Udall, *Veterinary Medicine and Hygiene*.  
 H. J. Milks, *Therapeutics and Small Animal Clinic*.  
 J. N. Frost, *Veterinary Surgery*.  
 H. H. Wing, *Animal Husbandry*.  
 B. F. Kingsbury, *Histology and Embryology*.  
 A. W. Browne, *Inorganic and Analytical Chemistry*.  
 E. S. Savage, *Animal Husbandry*.  
 M. W. Harper, " "  
 E. G. Merritt, *Physics*.  
 R. C. Gibbs, " "

## Assistant Professors :

- E. Sunderville, *Veterinary Anatomy*.  
 C. E. Hayden, *Veterinary Physiology*.  
 R. R. Birch, *Superintendent of the Veterinary Experiment Station*.  
 S. A. Goldberg, *Pathology*.  
 H. Asmus, *Horseshoeing*.  
 W. E. Muldoon, *Materia Medica*.  
 W. A. Hagan, *Pathology and Bacteriology*.  
 W. D. Way, *Veterinary Medicine*.  
 C. M. Carpenter, *Laboratory Diagnosis*.  
 H. D. Reed, *Zoology*.  
 6 Instructors, 3 Assistants.

# COLLEGE OF AGRICULTURE.

(In New York State.)

## Professors :

- A. R. Mann, *Rural Social Organization*.  
 I. P. Roberts, *Agriculture*.  
 J. H. Comstock, *Entomology and General Invertebrate Zoology*.  
 H. H. Wing, *Animal Husbandry*.  
 T. L. Lyon, *Soil Technology*.  
 J. L. Stone, *Farm Practice*.  
 J. E. Rice, *Poultry Husbandry*.  
 G. W. Cavanaugh, *Agricultural Chemistry*.  
 G. N. Lauman, *Rural Economy*.  
 H. H. Whetzel, *Plant Pathology*.  
 E. O. Fippin, *Soil Technology*.  
 G. F. Warren, *Farm Management*.  
 W. A. Stocking, *Dairy Industry*.  
 W. M. Wilson, *Meteorology*.  
 R. S. Hosmer, *Forestry*.  
 J. G. Needham, *Entomology and Limnology*.  
 R. A. Emerson, *Plant Breeding*.  
 H. H. Love, " "

## Professors—Continued :

- D. Reddick, *Plant Pathology*.  
 E. G. Montgomery, *Farm Crops*.  
 G. A. Works, *Rural Education*.  
 F. Rose (Miss), *Home Economics*.  
 M. Van Rensselaer (Miss), *Home Economics*.  
 J. A. Bizzell, *Soil Technology*.  
 G. W. Herrick, *Economic Entomology*.  
 H. W. Riley, *Rural Engineering*.  
 H. E. Ross, *Dairy Industry*.  
 H. C. Troy  
 S. N. Spring, *Silviculture*.  
 K. M. Wiegand, *Botany*.  
 W. H. Chandler, *Pomology*.  
 A. B. Recknagel, *Forest Management and Utilization*.  
 M. W. Harper, *Animal Husbandry*.  
 C. R. Crosby, *Entomology*.  
 E. S. Savage, *Animal Husbandry*.  
 K. C. Livermore, *Farm Management*.  
 E. A. White, *Floriculture*.  
 A. C. Beal, " "  
 H. A. Hopper, *Animal Husbandry*.  
 E. S. Guthrie, *Dairy Industry*.  
 M. C. Burritt, *Extension Service, and Vice-Director of Extension*.  
 W. C. Baker, *Drawing*.  
 M. F. Barrus, *Plant Pathology*.  
 L. J. Cross, *Agricultural Chemistry*.  
 O. A. Johannsen, *General Biology*.  
 C. H. Myers, *Plant Breeding*.  
 B. Adams, *Editor of Publications*.  
 D. J. Crossley, *Extension Service*.  
 A. C. King, *Farm Practice*.  
 C. Bitten, *Secretary and Registrar*.  
 G. A. Everitt, *Extension Teaching*.  
 F. L. Griffin, *Rural Education*.  
 L. Knudson, *Botany*.  
 E. G. Davis, *Landscape Art*.  
 R. W. Curtis, " "  
 C. B. Hutchison, *Plant Breeding*.  
 R. W. Rees, *Pomology*.  
 J. R. Schramm, *Botany*.  
 H. O. Buckman, *Soil Technology*.  
 R. H. Wheeler, *Extension Service*.  
 W. F. Lusk, *Rural Education*.  
 P. Work, *Vegetable Crops*.  
 J. Bentley, *Forest Engineering*.  
 P. J. Kruse, *Rural Education*.  
 R. M. Stewart, " "  
 J. E. Boyle, *Rural Economy*.  
 D. Sanderson, *Rural Organization*.  
 H. C. Thompson, *Vegetable Gardening*.  
 W. J. Wright, *Rural Education*.  
 J. E. Boyle, *Rural Economy*.

## Assistant Professors :

- J. C. Bradley, *Systematic Entomology*.  
 G. C. Embody, *Agriculture*.  
 H. B. Young (Mrs.), *Home Economics*.  
 A. B. Comstock (Mrs.), *Nature Study*.  
 H. M. Fitzpatrick, *Plant Pathology*.  
 B. B. Robb, *Rural Engineering*.

**Assistant Professors--Continued :**

W. W. Fisk, *Dairy Industry*.  
 A. J. Warner (Miss), *Home Economics*.  
 R. Gilkey, *Extension Service*.  
 C. T. Gregory, *Plant Pathology*.  
 L. R. Hesler, " "  
 W. H. Rankin, " "  
 E. W. Benjamin, *Poultry Husbandry*.  
 A. J. Eames, *Botany*.  
 J. K. Wilson, *Soil Technology*.  
 E. E. Barker, *Plant Breeding*.  
 R. Matheson, *Economic Entomology*.  
 B. E. Hazard (Miss), *Home Economics*.  
 D. Lumsden, *Floriculture*.  
 J. H. Barron, *Farm Crops*.  
 G. P. Scoville, *Farm Management*.  
 A. A. Allen, *Ornithology*.  
 L. A. Maynard, *Animal Husbandry*.  
 F. M. Blodgett, *Plant Pathology*.  
 H. E. Babcock, *Extension Service*.  
 E. R. King, *Entomology*.  
 F. E. Rice, *Agricultural Chemistry*.  
 L. W. Sharp, *Botany*.  
 J. C. McCurdy, *Rural Engineering*.  
 C. A. Boutelle, *Animal Husbandry*.  
 C. H. Royce, " "  
 G. H. Collingwood, *Forestry*.  
 W. W. Warsaw, *Soil Technology*.  
 O. F. Curtis, *Botany*.  
 T. J. McInerney, *Dairy Industry*.  
 E. D. Montillon, *Landscape Art*.  
 J. E. Reyna, *Drawing*.  
 E. L. Overholser, *Pomology*.  
 A. J. Heinicke, " "  
 O. B. Kent, *Poultry Husbandry*.  
 H. W. Schneek, *Vegetable Gardening*.  
 K. J. Seulke, *Animal Husbandry*.  
 L. M. Massey, *Plant Pathology*.  
 B. Blackmore, *Home Economics*.  
 B. A. Chandler, *Forest Utilization*.  
 E. G. Misner, *Farm Management*.  
 M. F. Henry (Miss), *Home Economics*.  
 S. L. Brewer (Miss), " "  
 H. Canon (Miss), " "  
 W. K. Blodgett, *Rural Engineering*.  
 M. J. Smith, *Animal Husbandry*.  
 J. H. Voorhees, *Farm Crops*.  
 L. Graves (Miss), *Home Economics*.  
 H. Monsch (Miss), " "  
 G. F. Heuser, *Poultry Husbandry*.  
 W. I. Myers, *Farm Management*.  
 74 Instructors, 43 Assistants.

**COLLEGE OF ARCHITECTURE.****Professors :**

C. A. Martin, *Architecture*.  
 O. M. Brauner, *Drawing and Painting*.  
 A. C. Phelps, *Architecture*.  
 G. Young, jr., " "  
 E. V. Meeks, " "

**Library.**—University Library of 560,000 volumes. *Librarian* : W. Austen.

**Assistant Professor :**

C. Midjo, *Freehand Drawing and Modelling*.  
 L. P. Burnham, *Design*.  
 G. R. Chamberlain, *Freehand Drawing*.  
 S. Stevens, *Design*.  
 H. S. Gutsell, *Freehand Drawing*.  
 1 Instructor.

**COLLEGE OF CIVIL ENGINEERING.****Professors :**

E. E. Haskell, *Experimental Hydraulics*.  
 H. S. Jacoby, *Bridge Engineering*.  
 H. N. Ogden, *Sanitary Engineering*.  
 F. A. Barnes, *Railroad Engineering*.  
 O. M. Leland, *Geodesy and Astronomy*.  
 S. G. George, *Mechanics of Engineering*.

**Assistant Professors :**

J. T. Parson, *Drawing*. [lics.  
 E. W. Schoder, *Experimental Hydraulics*.  
 M. A. Pond, *Civil Engineering*.  
 F. J. Seery, " "  
 E. W. Rettger, *Applied Mechanics*.  
 C. L. Walker, *Sanitary Engineering*.  
 P. H. Undergood, *Topographic and Geodetic Engineering*.  
 E. N. Burrows, *Bridge Engineering*.  
 W. L. Conwell, *Railroad Engineering*.  
 L. A. Lawrence, *Topographic and*  
 5 Instructors. [Geodetic Engineering.

**SIBLEY COLLEGE OF MECHANICAL ENGINEERING AND THE MECHANIC ARTS.****Professors :**

A. W. Smith, *Power Engineering*.  
 D. S. Kimball, *Machine Design and Industrial Engineering*.  
 G. R. McDermott, *Structural Design*.  
 H. Diederichs, *Experimental Engineering*.  
 A. Gray, *Electrical Engineering*. [ing.  
 W. N. Barnard, *Power Engineering*.  
 V. Karapetoff, *Electrical Engineering*.  
 E. H. Wood, *Mechanics of Engineering*.  
 C. D. Albert, *Machine Design*. [ing.  
 A. E. Wells, *Machine Construction*.  
 F. O. Ellenwood, *Power Engineering*.  
 W. M. Sawdon, *Experimental Engineering*. [ing.

**Assistant Professors :**

G. B. Upton, *Experimental Engineering*.  
 S. S. Garrett, *Mechanics of Engineering*.  
 V. R. Gage, *Experimental Engineering*.  
 R. Matthews, *Power Engineering*.  
 C. W. Ham, *Machine Design*.  
 M. A. Lee, " "  
 J. G. Pertsch, *Electrical Engineering*.  
 F. G. Switzer, *Hydraulics*.  
 W. C. Ballard, *Electrical Engineering*.  
 F. S. Rogers, *Machine Design*.  
 C. E. Townsend, " " [ants.  
 9 Instructors, 3 Foremen, and 6 Assistants.

## EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

Director.—A. R. Mann.

## JAMMU (Kashmir State).

PRINCE OF WALES COLLEGE, Jammu, Kashmir State. (1907.)

Affiliated to the University of the Punjab, Lahore.

Terms : Two a year.

Students : 240.

## OFFICIALS.

Principal.—S. Robson, M.A.

## PROFESSORS.

## Professors :

S. Robson, *English*.  
 Fram. M. Dadina, *Economics*.  
 A. Bannerji, *English*.  
 T. Sanyal  
 T. L. Manghirmalani, *History*.  
 U. N. Kundu, *Mathematics*.  
 Siddheshwar Varma, *Sanskrit*.  
 Mohammad Ibrahim, *Persian*.

Library.—The College Library. Librarian : Pandit Kantha Raul.  
 Museum of Geology.

## Professors—Continued :

Abdul Hadi, *Arabic*.  
 Seva Ram Suri, *Physics*.  
 Prabhu Dayal Dhawan, *Chemistry*.  
 D. N. Wadia, *Geology*.  
 B. K. Basu

## Assistant Professor :

M. C. Khosla, *Physics*.  
 1 Demonstrator.

JEWISH THEOLOGICAL SEMINARY. See NEW YORK.

## JOHANNESBURG (South Africa).

SOUTH AFRICAN SCHOOL OF MINES AND TECHNOLOGY, Plein Square,  
 Johannesburg. (1896.)

Terms : Two a year.

## OFFICIALS.

Principal.—Jan H. Hofmeyer, M.A.

Secretary to Senate.—R. B. Young, M.A., D.Sc., F.R.S.E.

## PROFESSORS.

J. H. Hofmeyer, *Chemistry*.  
 H. J. W. Tillyard, *Chemistry*.  
 J. L. Landau, *Hebrew*.  
 C. M. Drennan, *English, Logic, and*  
 J. D. A. Krige, *Dutch*. [Ethics.  
 Morgan Watkin, *French*.  
 W. Keith Macgregor, *Psychology and*  
*Education*.  
 R. A. Lehfeldt, *Economics*.  
 W. M. Macmillan, *History*.  
 J. P. Dalton, *Mathematics*.  
 H. H. Paine, *Physics*.  
 J. A. Wilkinson, *Chemistry*.

C. E. Moss, *Botany*.  
 H. B. Fantham, *Zoology*.  
 R. B. Young, *Geology*.  
 E. P. Stibbe, *Anatomy*.  
 E. H. Cluver, *Physiology*.  
 J. S. Cellier, *Mining and Surveying*.  
 G. H. Stanley, *Metallurgy and Assaying*.  
 R. H. Charters, *Civil Engineering*.  
 J. Orr, *Mechanical Engineering*.  
 H. J. S. Heather, *Electrotechnics*.  
 J. Findlay, *Accounting*.  
 7 Lecturers, 20 Assistants.

JOHNS HOPKINS UNIVERSITY. See BALTIMORE.

## KAMPU (India).

THE CHEMICAL AND TECHNICAL LABORATORY, Kampu, Lashkar,  
 Gwalior State, India.

Founded at the instigation of His Highness the Maharaja of Scindia, to undertake the analytical work of the various departments and factories of the State. Additional activities consist of the development of the mineral resources, and the industries of the State, and the training of students in Technical Analysis and Research.

OFFICIALS.

*Director.*—M. J. Gajjar, M.A., F.C.S.

*Superintendent.*—F. B. Shroff, M.A.

*Research Assistant.*—M. R. Engineer, B.Ag.

4 Assistants.

**KANSAS UNIVERSITY.** *See* **LAWRENCE.**

**KAPURTHALA (India).**

**RANDHIR COLLEGE**, Kapurthala, Punjab, India. (1896.)

Affiliated to the University of the Punjab, Lahore.

*Terms* : Two a year.

*Students* : 180.

OFFICIALS.

*Principal.*—Pt. Mathura Das, M.A., LL.B. *Librarian.*—L. B. Das.

PROFESSORS.

**COLLEGE OF ARTS.**

**Professors :**

Pt. Mathura Das, *English and Philosophy.*

L. T. Ram, *Mathematics.*

B. A. Singh, *Science.*

L. J. Lal, *English and History.*

**COLLEGE OF ORIENTAL  
LANGUAGES AND HISTORY.**

**Professors :**

Pandit Sir R. Shastie.

M. M. A. Manhui Fazal, *Persian and Arabic.*

4 Pandits, 7 Masters.

**KENNAIRD COLLEGE.** *See* **LAHORE.**

**KEW ROYAL BOTANIC GARDENS.** *See* **LONDON.**

**KHALSA COLLEGE.** *See* **AMRITSAR.**

**KHARTOUM (Sudan).**

**GORDON MEMORIAL COLLEGE**, Khartoum, Sudan. (1899.)

*Budget* (1919): Le. 29750.

OFFICIALS.

*President.*—General Sir R. Wingate.

*Hon. Treasurer.*—Hon. A. R. Mills, M.P.

*Hon. Secretary.*—Mr. F. Van De Linde.

*Principal and Director of Education.*—Mr. J. W. Crowfoot.

*Acting Assistant Principal.*—Mr. N. R. Udal.

**WELLCOME TROPICAL RESEARCH LABORATORIES.**

*Budget* (1919): Le. 13360.

**Professors :**

A. J. Chalmers, *Director.*

Major R. G. Archibald, *Assist. Director and Pathologist.*

Major W. E. Marshall, *Government Bacteriologist.*

R. E. Massey, *Government Botanist.*

A. F. Joseph, *Government Chemist.*

G. A. Freak, *Assist. Government Chemist.*

Captain F. J. Martin, *Assist. Government Chemist.*

H. H. King, *Government Entomologist.*

Captain H. W. Bedford, *Assist. Government Entomologist.*

**GEOLOGICAL SURVEY.**

*Budget* (1919): Le. 2250.

G. W. Gra'ham, *Government Geologist.*

(Vacant), *Assist. Geologist.*



**ANTIQUITIES SERVICE.**

(Antiquities Museum attached.)

P. Drummond, *Acting Conservator.*

**NATURAL AND ETHNOLOGICAL MUSEUM.**

H. H. King, *Acting Curator.*

**Library.**—Arabic and Sudan. *Librarian* : S. Hillelson.

**KING'S COLLEGE, UNIVERSITY OF.** *See* WINDSOR.

**KINGSTON (Jamaica).**

**THE INSTITUTE OF JAMAICA**, Kingston, Jamaica. (1879.)

*Secretary and Librarian.*—Frank Cundall, F.S.A.

**Objects** to encourage Literature, Science, and Art in the Island.

**Library** of 15,000 volumes, and a special West Indian Reference Library of 5,000 volumes.

**Museum** of Natural History, especially rich in specimens of the fauna and flora of Jamaica; also contains many Arawak implements.

**Art Gallery** containing pictures illustrating the history of Jamaica.

**KINGSTON (Ontario).**

**QUEEN'S UNIVERSITY.** No particulars received.

**QUEEN'S THEOLOGICAL COLLEGE**, Kingston, Ontario, Canada. (1842.)

Affiliated since 1912 to Queen's University. Before that Theology formed a faculty in the University, the University being at that time connected with the Presbyterian Church.

*Sessions* : One a year. *Students* : 35.

**OFFICIALS.**

*Principal.*—S. W. Dyde, D.D., LL.D.

*Secretary.*—W. Morgan, M.A., D.D.

**Degrees conferred.**—The degrees of B.D. and D.D. are conferred by Queen's University on the recommendation of the Theological Senate. The College has the right to confer degrees of its own, but does not exercise it.

*Hoods.*—As Queen's University.

**PROFESSORS.**

Rev. S. W. Dyde, *Church History.*

Rev. W. S. Jordan, *Semitic Languages*  
and *Old Testament Criticism.*

Rev. W. Morgan, *Systematic Theology*  
and *Apologetics.*

Rev. J. F. Fadyen, *New Testament and*  
*Criticism Literature.*

(Vacant), *Practical Theology.*

Rev. H. T. Wallace, *Semitic Languages.*  
1 Lecturer.

**KUALA LUMPUR.**

**DEPARTMENT OF AGRICULTURE, FEDERATED MALAY STATES.** (1905.)

Head Quarters, Kuala Lumpur, Selangor, F.M.S.

**OFFICIALS.**

*Director.*—L. Lewton-Brain.

*Assistant to Director.*—(Vacant.)

*Agricultural Chemist.*—B. J. Eaton.

*Assistant Agricultural Chemist.*—S. W. Bunker.

*Assistant Agricultural Chemist.*—(Vacant, three.)

*Chief Agricultural Inspector.*—F. W. South.

*Assistant Agricultural Inspector.*—A. G. G. Ellis.  
*Assistant Agricultural Inspector.*—F. de la Mare Norris.  
*Assistant Agricultural Inspector.*—H. H. Stirrup.  
*Assistant Agricultural Inspector.*—(Vacant, six.)  
*Inspector of Coconuts.*—T. C. Nock.  
*Economic Botanist.*—(Vacant.)  
*Assistant Economic Botanist.*—(Vacant.)  
*Mycologist.*—A. Sharples.  
*Assistant Mycologist.*—W. N. C. Belgrave.  
*Assistant Mycologist.*—(Vacant, two.)  
*Entomologist.*—(P. B. Richards, acting) (Vacant.)  
*Assistant Entomologist.*—P. B. Richards.  
*Systematic Entomologist.*—C. B. Holman Hunt.  
*Agriculturist.*—F. G. Spring.  
*Assistant Agriculturist.*—B. Bunting.  
*Assistant Agriculturist.*—(Vacant, two.)  
*Superintendent of Government Plantations.*—J. Lambourne.  
*Superintendent of Government Plantations.*—J. N. Milsum.  
*Agricultural Instructor.*—H. W. Jack.  
*Agricultural Instructor.*—D. H. Grist.  
*Physiologist.*—(Vacant.)  
*Geneticist.*—(Vacant.)

**Headquarters.**—Laboratories, Library, Experimental Rubber Vulcanization Factory, Experimental Papermaking Factory, Experimental Oil Machinery, Raw Rubber Factory, etc., Experimental Plantation and Botanic Gardens.

**Sub-Stations.**—Experimental Plantations, Batu Tiga, Kuala Kangsar, Gunong Angsi, Krian (rice), Kuala Pilah (rice and fruit).

**Publications.**—A monthly bulletin of tropical agriculture (Agricultural Bulletin, F.M.S.), special bulletins containing original researches, etc., by members of the Staff.

**LADY HARDINGE MEDICAL COLLEGE.** See **DELHI.**

**LAFAYETTE COLLEGE.** See **EASTON.**

**LAFAYETTE (Indiana).**

**PURDUE UNIVERSITY.** No particulars received.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—C. G. Woodbury.

**LAHORE (India).**

**UNIVERSITY OF THE PUNJAB,** Lahore, Punjab. (1882.)

*Terms:* Two a year.

*Budget:* Income, Rs. 4,33,164.

Expenditure, Rs. 3,83,284.

#### OFFICIALS.

*Chancellor.*—His Honour Sir E. D. MacLagan, M.A., K.C.I.E., C.S.I., I.C.S.

*Vice-Chancellor.*—The Hon. Sir H. J. Maynard, M.A., C.S.I., I.C.S.

*Registrar.*—A. C. Woolner, M.A. (On leave.)

*Officiating Registrar.*—P. N. Dutt, B.A., R.B.

*Dean of the Oriental Faculty.*—Dr. Sh. Mohammed Iqbal, M.A., Ph.D.

*Dean of the Faculty of Arts.*—Rev. E. D. Lucas, M.A., D.D.

*Dean of the Faculty of Science.*—A. S. Hemmy, B.A., M.Sc.

*Dean of the Faculty of Medicine.*—Lt.-Col. D. W. Sutherland, I.M.S., C.I.E.

*Dean of the Faculty of Law.*—(Vacant.)

*Dean of the Faculty of Agriculture.*—W. D. Roberts, B.Sc.

Degrees conferred :

Degrees.	Hoods.
D.O.L. - -	Hood scarlet, lined with pearl grey.
M.O.L. - -	Sash black, bordered and fringed with claret-coloured silk.
B.O.L. - -	Sash black, bordered with drab silk.
D.Litt. - -	Hood crimson, lined with white.
M.A. - -	Hood black, lined with claret-coloured silk.
B.T. - -	Hood black, lined with peacock blue.
B.A. - -	Hood black, lined with drab.
LL.D. - -	Hood scarlet, lined with dark blue.
LL.B. - -	Hood dark blue, lined with white.
M.D. - -	Hood scarlet, lined with dark mauve.
M.S. - -	Hood light mauve, lined with white.
M.B. - -	Hood black, lined with plum-coloured cloth.
D.Sc. - -	Hood scarlet, lined with gold-coloured silk.
M.Sc. - -	Hood orange, lined with white.
B.Sc. - -	Hood black, lined with white.

UNIVERSITY PROFESSORS.

G. Matthri, <i>Zoology</i> .	M. M. Shafi, <i>Classical Arabic</i> .
S. R. Kashyap, <i>Botany</i> .	A. C. Woolner, <i>Sanskrit</i> .

Most of the teaching work of this University is done by Professors of Affiliated Colleges.

**Post-Graduate Courses.**—M.A. and M.Sc. Courses in the following subjects: English, Arabic, Sanskrit, Persian, Mathematics, History, Philosophy, Economics, Physics, Chemistry, Zoology and Comparative Anatomy, Botany, Geology and Physiology.

**Library.**—There is a Library comprising about 39,313 volumes maintained by the University. *Librarian* : A. C. Woolner, M.A. *Officiating Librarian* : Mukand Lal.

AFFILIATED INSTITUTIONS.

Oriental College, Lahore.	Murray College, Sialkot.
Government College, Lahore.	Islamia College, Peshawar.
Forman Christian College, Lahore.	Hindu College, Delhi.
D.A.V. College, Lahore.	Kinnaird College, Lahore.
St. Stephen's College, Delhi.	Sadiq-Egerton College, Bahawalpur.
Islamia College, Lahore.	Randhir College, Kapurthala.
Khalsa College, Amritsar.	G. N. Khalsa College, Gujranwala.
Mohindra College, Patiala.	Lady Hardinge Medical College, Delhi.
Dyal Singh College, Lahore.	Ramjas College, Delhi.
Sanatan Dharam College, Lahore.	D.A.V. College, Jullunder.
Gordon College, Rawalpindi.	Central Training College, Lahore.
Prince of Wales College, Jammu.	The Law College, Lahore.
Sri Paratap College, Srinagar, Kashmir.	The Medical College, Lahore.
Edwardes' College, Peshawar.	Agricultural College, Lyallpur.

KING EDWARD MEDICAL COLLEGE, Lahore, Punjab. (1860.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 345.

OFFICIALS.

*Principal*.—Lieut.-Col. D. W. Sutherland, C.I.E., M.D., C.M., M.R.C.P., F.R.S., I.M.S.

**Degrees conferred.**—M.D., M.S., M.B., B.S.

### PROFESSORS.

Lieut.-Col. D.W. Sutherland, *Medicine*.  
 Lieut.-Col. D. M. Davidson, *Forensic Medicine*.  
 Lieut.-Col. E. V. Hugo, *Surgery*.  
 Capt. J. J. Harper Nelson, *Materia Medica*.  
 Brevet-Col. R. Heard, *Midwifery*.  
 Lieut.-Col. D. M. Davidson, *Midwifery*.  
 Lieut.-Col. H. Ainsworth, *Diseases of Eye, Ear, and Throat*.  
 Lieut.-Col. S. Browning Smith, *Hygiene*.

Lieut.-Col. H. M. Mackenzie, *Hygiene*.  
 Major W. H. C. Forster, *Pathology*.  
 Major H. H. Broome, *Anatomy*.  
 Capt. R. H. Bott, *Operative Surgery*.  
 Dr. C. C. Caleb, *Physiology*.  
 Hon. Capt. J. F. Fleming, *Mental Diseases*.  
 18 Assistant Surgeons, 5 Clinical Assistants, 3 Lecturers, 10 Demonstrators.

### GOVERNMENT COLLEGE, Lahore. (1864.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 580.

### OFFICIALS.

*Principal*.—A. S. Hemmy, B.A., M.Sc.

### PROFESSORS.

#### Professors :

A. S. Hemmy, *Physics*.  
 F. R. Tomlinson, *English*.  
 H. L. O. Garrett, *History*.  
 L. T. Watkins, *English*.  
 H. B. Dunnicliff, *Chemistry*.  
 (Vacant), *Zoology*.  
 G. D. Sondhi, *Economics*.  
 G. S. Chowla, *Mathematics*.  
 S. R. Kashyap, *Botany*.  
 G. Singh, *Sanskrit*.  
 C. Anand, *Physics*.  
 Md. Sadr-ud-din, *Arabic*.  
 Fazl-i-Haqq, *Persian*.

#### Assistant Professors :

A. H. Khan, *English and History*.  
 B. Lal, *Biology*.  
 M. Lal, *Mathematics*.  
 M. Said, *English*.  
 A. Rum, *English*.  
 B. Manmohan, *English and Economics*.  
 H. Rai, *Chemistry*.  
 L. Ghose, *Biology*.  
 P. Singh, *Chemistry*.  
 S. K. Kapur, *Mathematics*.  
 Sada Nand, *Physics*.

### FORMAN CHRISTIAN COLLEGE, The Mall, Lahore, Punjab. (1866.)

Affiliated with the University of the Punjab, Lahore.

### OFFICIALS.

*Principal*.—The Rev. E. D. Lucas, D.D., M.A.

*Vice-Principal*.—The Rev. C. H. Rice, B.A.

### PROFESSORS.

#### Professors :

Rev. E. D. Lucas, *Economics*.  
 Rev. C. H. Rice, *Philosophy*.  
 Rev. R. Wilson, *History*.  
 P. C. Speers, *Chemistry*.  
 J. M. Benade, *Physics*.  
 Rev. J. B. Weir, *English*.  
 R. Siraj-ud-Din, *History and Philosophy*.  
 S. N. D. Gupta, *Mathematics*.  
 P. Samuels-Lall, "  
 D. Sivaprakasum, *English*.

#### Professors—Continued :

L. I. Das, *History*.  
 L. M. C. Sethi, *Biology*.  
 A. B. Yajnik, *Chemistry*.  
 H. S. Bennett, *Industrial Chemistry*.

#### Assistant Professors :

P. M. Lal, *English*.  
 Barakat Ullah, "  
 L. S. Lal, *Chemistry*.  
 L. M. C. Suri, *Mathematics*.  
 I. D. Parshad, *Economics*.  
 6 Lecturers.

**Post-Graduate Courses.**—Courses leading to the degree of M.A. in English, History, Mathematics, Economics, and to the M.Sc. in Chemistry.

A new course leading to the degree of M.A. in Persian is to be initiated this autumn.

**Museum.**—Small Archeological Museum.

**Library.**—Library of 10,300 volumes. *Librarian* : I. Durga Parshad, M.A.



**THE LAW COLLEGE**, Lahore, Punjab, India. (1870.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 500.

*Principal*.—Kanwar Sain, M.A., Barrister-at-Law.

1 Lecturer, 6 Readers.

**Library**.—Law College Library. *Librarian* : Missar Radhakishan.

**ORIENTAL COLLEGE**, Lahore, Punjab. (1870.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 61.

OFFICIALS.

*Principal*.—A. C. Woolner, M.A.

4 Pandits, 2 Maulvis, 2 Munshis, 2 Bhais, 3 Teachers.

**KINNAIRD COLLEGE FOR WOMEN**, Lahore, Punjab, India. (1879).

Affiliated to the University of the Punjab.

OFFICIALS.

*Principal*.—Miss Annear, B.A.

PROFESSORS.

Annear (Miss), *English*.

M. Das (Miss), *History*.

A. Shah (Miss), *Philosophy*.

S. Lal, *Mathematics*.

M. A. Karim, *Urdu*.

L. B. Das, *Hindi*.

S. C. Bose, *Bengali*.

**CENTRAL TRAINING COLLEGE**, Lahore, Punjab. (1881.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 200.

OFFICIALS.

*Principal*.—H. T. Knowlton, I.E.S.

*Vice-Principal*.—J. E. Parkinson, M.A., I.E.S.

13 Masters.

**DAYANAND ANGLO-VEDIC COLLEGE**, Lahore, Punjab. (1886.)

Affiliated to the University of the Punjab, Lahore.

OFFICIALS.

*Principal*.—Lala Sain Das, M.A., B.Sc.

*Librarian*.—S. Bishen Singh.

*Head Clerk*.—K. Chand.

PROFESSORS.

**Professors :**

L. S. Das, *Chemistry*.

I. S. R. Janiwala, *Philosophy*.

Mahajat Sahai

Gowardhen Lah Dutt, *Physics*.

L. H. N. Das, *Biology*.

K. C. Nag, *Economics*.

S. K. Dutt, *History*.

L. A. Nath Bali, *History*.

Pandit G. Rai, *Sanskrit*.

Pandit B. Dutt, *Theology*.

Maulvi M. Bakhsh, *Persian*.

L. D. Dayal, *Mathematics*.

**Professors—Continued :**

S. C. Bhattacharya, *English*.

**Assistant Professors :**

S. C. Gangali, *English*.

L. M. G. Singh, „

M. N. Zutshi, „

L. B. D. Bahl, „

Amalak Rau Sawhny, *English*.

Babu K. M. Ghosh, *Mathematics*.

L. H. Chand, *Mathematics*.

L. M. Chand, *Chemistry*.

Pt. R. Ram, *Sanskrit*.

**THE ISLAMIA COLLEGE**, Railway Road, Lahore. (1892.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 500.

## OFFICIALS.

*Principal*.—Henry Martin, M.A.

## PROFESSORS.

H. Martin, *English*.

P. E. Richards, „

Sh. M. A. Ghani, *English*.

G. R. Shauq „

M. H. Ali, *Mathematics*.

D. Muhammad „

M. B. Ahmad, *History*.

S. A. Qadir „

A. Hamid, *Philosophy*.C. Din, *Physics*.K. Rai, *Biology*.M. Din, *Chemistry*.Maulvi A. Ali, *Arabic and Theology*.

Maulvi A. Ali „

Maulvi M. U. Khan, *Persian*. „**Post-Graduate Courses**.—Leading to M.A. in Arabic, M.A. in Persian.**Library**.—A College Library of about 5,000 volumes.**DYAL SINGH COLLEGE**, Lahore, Punjab. (1910.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 600.

## OFFICIALS.

*Principal*.—S. C. Roy, M.A.

## PROFESSORS.

S. C. Roy, *Philosophy and Religion*.

A. N. Bhasin „ „

Hem Raj, *Mathematics*.

Mul Raj „

A. C. Rakshit, *English and History*.B. Singh, *English*.

P. C. Sen „

S. R. Grover „

I. C. Nanda, *English*.

B. L. Anand „

C. Lal, *History and Economics*.K. M. Maitra, *Persian*.V. N. Sahai, *Sanskrit*.M. Lal, *Physics*.G. Singh, *Chemistry*.G. R. Kohly, *Biology*.**SANATAN DHARAM COLLEGE**, Lahore, Punjab. (1916.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 240.

## OFFICIALS.

*Principal*.—Raghubar Dayal Shastri, M.A., M.O.L.*Vice-Principal*.—Gulshan Rai, B.A., M.B.

## PROFESSORS.

R. D. Shastri, *Sanskrit*.P. N. M ulick, *English*.

S. D. Midha „

R. N. Kalyan „

B. Narain, *Economics and History*.Pandit G. Datta, *Sanskrit*.P. L. Mathur, *Philosophy*.G. Rai, *History*.A. N. Ganguly, *Mathematics*.

R. Das „

M. Khan-ud-din, *Persian*.**LAMPETER.****S. DAVID'S COLLEGE**, Lampeter. (1822.)

Students who have received three years at S. David's College and have obtained Honours in the Final Examination of the Degree Course, are received as affiliated students at Oxford and Cambridge, where they are allowed to graduate after two years' residence only.

*Terms* : Three per year.*Students* : 110.

OFFICIALS.

*Visitor*.—The Rt. Rev. the Lord Bishop of S. Davids.

*Principal*.—Rev. G. C. Joyce, D.D.

*Bursar*.—A. W. Scott, M.A.

Degrees conferred :

Degrees.	Hoods.
B.D. - -	Black silk, lined with puce, and edged with white silk.
B.A. - -	Black, lined with white fur with black spots.

PROFESSORS.

Rev. G. C. Joyce, *Theology and Greek*.

A. W. Scott, *Science*.

Rev. G. W. Wade, *Latin*.

H. Walker, *English and Philosophy*.

Rev. E. Tyrrell-Green, *Hebrew and Theology*.

Rev. R. H. Richards, *Welsh*.

Rev. W. H. Harris, *Lecturer in Theology*.

**Post-Graduate Courses.**—Those who have taken the B.A. degree at S. David's College can proceed to the B.D. degree, on condition that they reside for a 10th term, and pass the requisite examination, provided that they have been in Holy Orders for a period not less than five years.

**Library.**—College Library. *Librarian* : Rev. G. W. Wade, D.D.

LARAMIE (Wyoming).

THE UNIVERSITY OF WYOMING, Laramie, Wyoming. (1886.)

*Terms* : Three terms and Summer School.

*Students* : 646.

*Budget* : \$343,152.40.

OFFICIALS.

*President of Board of Trustees*.—A. B. Hamilton, M.D.

*Vice-President of the Board of Trustees*.—W. C. Deming, B.C., M.A.

*Treasurer*.—C. D. Spalding.

*Secretary*.—F. S. Burrage.

*President of University*.—Aven Nelson, Ph.D.

*Dean of the College of Liberal Arts*.—Justus F. Soule, M.A.

*Dean of College of Agriculture*.—A. D. Faville, M.S.

*Dean of College of Education*.—Julian E. Butterworth, Ph.D.

**Degrees conferred.**—B.A. (College of Liberal Arts), B.S. (College of Agriculture), B.S. (College of Engineering), B.A. (College of Education), B.Mus. (Division of Music), M.A., M.S.

PROFESSORS.

COLLEGE OF LIBERAL ARTS.

Professors :

H. C. Dale, *Political Science*.

B. C. Daly, *Military Science and Tactics*.

J. E. Downey, *Philosophy and Psychology*.

G. R. Hebard (Miss), *Political Economy*.

E. D. Hunton, *Commerce*.

E. K. Kline, *Modern Languages*.

H. D. Nasmyth, *Voice*.

R. B. Pease, *English*.

J. F. Soule, *Latin and Greek*.

L. A. White (Miss), *History*.

Associate Professors :

R. E. Berry, *Commerce*.

C. F. McIntyre (Miss), *English*.

Assistant Professors :

A. C. Cross, *History*.

R. L. Ruegnitz (Miss), *Music*.

G. E. Ryan (Miss), *Teaching of English*.

COLLEGE OF ENGINEERING.

Professors :

A. E. Bellis, *Physics*.

A. C. Boyle, jr., *Mining Engineering*.

J. C. Fitterer, *Civil Engineering and Irrigation*.

J. A. Hill, *Textile Industry*.

E. G. Hoefer, *Mechanical and Electrical Engineering*.

S. H. Knight, *Geology and Curator of Museum*.

P. T. Miller, *Chemistry*.

R. B. Moudy, *Chemistry*.

**Professors—Continued :**

C. B. Ridgaway, *Mathematics*.  
C. E. Stromquist, *Mathematics*.

**Associate Professor :**

K. T. Steik, *Chemistry*.

**Assistant Professor :**

W. A. Hitchcock, *Civil Engineering*.

**COLLEGE OF AGRICULTURE.**
**Professors :**

L. R. Davies, *Teacher Training for Vocational Agriculture*.  
A. D. Faville, *Animal Husbandry*.  
E. H. Lehnert, *Veterinary Science*.  
J. W. Scott, *Zoology and Parasitology*.

**Associate Professor :**

A. E. Vass, *Agronomy*.

**Post-Graduate Courses.**—The University of Wyoming offers a limited amount of graduate instruction. The graduate work is under the direction and control of the professors in charge of the respective departments, but must be approved by the Committee on Graduate Students.

**Museums.**—The University Museum. *Curator* : S. Howell Knight. The Rocky Mountain Herbarium. The Engineering Museum. The Agricultural Museum.

**Library.**—The University Library. *Librarian* : Miss Reba Davis. *Assistant Librarian* : Miss Doris Greene.

**AFFILIATED INSTITUTIONS.**

Ivinson Memorial Hospital, Laramie, Wyo.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*—A. D. Faville.

**LA TRAPPE (Two Mountains County).**

**INSTITUT AGRICOLE D'OKA**, La Trappe, Two Mountains Co. (1893.)

*Terms* : Two per year.

*Students* : 130 (Agricultural).

**OFFICIALS.**

*President*.—Right Rev. Dom Pacôme Gaboury, Abbot.

*Dean*.—Rev. Father Jean de la Croix, M.A.

*Assistant Dean*.—Rev. Father Athanase.

*Bursar*.—Rev. Father Humbert.

*Secretary and Librarian*.—Rev. Father Yves.

**Degrees conferred.**—B.S.A. Granted by Laval University at the end of the four years' course.

**PROFESSORS.**

M. I. J. A. Marsan, *Field Husbandry*.  
M. H. Nagant, *Chemistry*.  
Rev. Brot. Liguory (Secretary Quebec Farmers' Experimental Union).  
M. A. Dauth, *Veterinary Science*.  
R. F. Leopold, *Horticulture*.  
M. N. Cossette, *Farm Machinery*.  
M. R. Cossette, *Botany*.

R. Bro. Isidore, *Animal Husbandry*.  
R. F. Maur, *Beekeeping*.  
M. A. N. Héroux, *Animal Husbandry*.  
R. Bro. Wilfrid, *Poultry Husbandry*.  
M. C. A. Fontaine, *Farm Management*.  
M. F. Létourneau, *Entomology*.  
Rev. F. Athenase, *Vegetable Gardening*.  
R. F. Honore, *Pomology*.

8 Lecturers.

**Post-Graduate Courses** in Horticulture, Poultry Husbandry, and Bee-keeping.



**LAWRENCE (Kansas).****THE UNIVERSITY OF KANSAS**, Lawrence, Kansas. (1864.)*Terms* : Two semesters and a Summer Session of 10 weeks.*Students* : 3,916.*Budget* : The University owns equipment, buildings, and grounds of an estimated value of \$2,000,000. It receives in normal years about \$70,000 annually from fees and \$7,200 from the land fund. For the biennium of 1917-19 the state appropriated \$1,523,000, including \$225,000 for building.**OFFICIALS.***Chancellor*.—Frank Strong, Ph.D.*Vice-President*.—W. L. Burdick, Ph.D.*Registrar*.—George O. Foster, A.B.*Dean of the Graduate School*.—Frank W. Blackmar, Ph.D.*Dean of the College of Liberal Arts and Sciences*.—Olin Templin, A.M.*Dean of the School of Engineering*.—Perley F. Walker, M.M.E.*Dean of the School of Law*.—James W. Green, A.M.*Dean of the School of Fine Arts*.—Harold L. Butler, A.B.*Dean of the School of Pharmacy*.—Lucius E. Sayre, Ph.M.*Dean of the School of Medicine*.—Samuel J. Crumbine, M.D.*Dean of the School of Education*.—Frederick J. Kelly, Ph.D.**Degrees conferred**.—A.B., A.M., B.S., B.S. (Eng.), B.S. (Med.), B.S. (Ed.), M.S., M.S. (Ed.), LL.B., Mus. Bac., Ph.D., C.E., M.E., A.E., E.E., B.P.**PROFESSORS.****COLLEGE OF LIBERAL ARTS.****Professors :**A. M. Wilcox, *Greek Language and Literature*.F. W. Blackmar, *Sociology*.C. G. Dunlap, *English Literature*.O. Templin, *Philosophy*.E. M. Hopkins, *Rhetoric and English Language*.F. H. Hodder, *American History and Political Science*.A. T. Walker, *Latin Language and Literature*.E. Galloo, *Romance Languages and Literatures*.J. Naismith, *Physical Education*.E. H. Hollands, *Philosophy*.W. A. McKeever, *Child Welfare*.E. F. Engel, *German*.W. O. Hamilton, *Physical Education*.A. MacMurray, *Public Speaking*.F. R. Hamilton, *University Extension*.E. C. Sprague (Miss), *Home Economics*.H. Olcott, *Physical Education*.R. D. O'Leary, *English*.A. J. Boynton, *Economics*.H. C. Thurnau, *Germanic Languages and Literatures*.D. L. Patterson, *European History*.L. N. Flint, *Journalism*.C. A. Dykstra, *Political Science*.A. L. Owen, *Hispanic Languages*.**Associate Professors :**M. W. Sterling, *Greek*.H. Oliver (Miss), *Latin*.**Associate Professors—Continued :**S. L. Whitcomb, *Comparative Literature*.L. E. Sisson, *Rhetoric*.A. L. Corbin (Miss), *German*.H. O. Kruse, *German*.C. C. Crawford, *European History*.E. W. Murray, *Latin*.W. S. Johnson, *English Literature*.V. E. Helleberg, *Sociology*.E. N. Raymond, *Rhetoric*.M. Lynn (Miss), *English Literature*.E. N. Schwander (Miss), *Romance Languages*.W. W. Davis, *American History*.J. G. Brandt, *Greek*.B. F. Moore, *Political Science*.M. C. Elmer, *Sociology*.W. McG. Duffus, *Economics*.A. L. Goetz (Miss), *Physical Education*.**Assistant Professors :**A. M. Sturtevant, *German*.L. Gardner (Miss), *Rhetoric*.J. M. Burnham (Miss), *English*.F. E. Melvin, *Modern European History*.R. R. Morgan (Miss), *Rhetoric*.A. Stanton (Miss), *Romance Languages*.H. G. Jones (Miss), *German*.L. B. McCarty, *Physical Education*.G. Clark, *Physical Education*.J. Ise, *Economics*.S. O. Rice, *Journalism*.M. Gardner (Miss), *Romance Languages*.

**Assistant Professor—Continued :**

- H. M. Clarke (Miss), *Correspondence Study*.  
 G. H. Derry, *Political Science*.  
 M. Ferguson, *Economics and Commerce*.  
 G. C. Loud, *Journalism*.  
 R. G. Mahieu, *Romance Languages*.  
 L. Battey (Miss), *Teaching of English*.  
 H. B. Chubb, *Political Science*.  
 W. W. Sullivan, *History*.  
 E. C. Meguiar (Miss), *Home Economics*.

**COLLEGE OF SCIENCE.**
**Professors :**

- E. H. S. Bailey, *Chemistry and Metallurgy*.  
 E. Haworth, *Geology and Mineralogy*.  
 W. C. Stevens, *Botany*.  
 S. J. Hunter, *Entomology*.  
 F. E. Kester, *Physics*.  
 H. P. Cady, *Chemistry*.  
 B. M. Allen, *Zoology*.  
 F. B. Dains, *Chemistry*.  
 J. N. Van der Vries, *Mathematics*.  
 C. H. Ashton, *Mathematics*.  
 W. S. Hunter, *Psychology*.  
 C. F. Nelson, *Physiological Chemistry*.

**Associate Professors :**

- W. J. Baumgartner, *Zoology*.  
 H. C. Allen, *Chemistry*.  
 U. G. Mitchell, *Mathematics*.  
 F. C. Dockera, *Psychology*.  
 H. B. Hungerford, *Entomology*.  
 E. B. Stouffer, *Mathematics*.  
 G. W. Stratton, *Chemistry*.  
 R. C. Moore, *Geology and Paleontology*.  
 P. V. Faragher, *Chemistry*.

**Assistant Professors :**

- E. E. Stimpson, *Physics*.  
 J. E. Todd, *Geology and Mineralogy*.  
 C. C. Young, *Chemistry*.  
 H. E. Jordan, *Mathematics*.  
 W. R. B. Robertson, *Zoology*.  
 T. T. Smith, *Physics*.  
 W. S. Long, *Chemistry*.  
 N. Nowlin (Miss), *Zoology*.  
 G. M. Charles (Miss), *Botany*.  
 W. L. Eikenberry, *Teaching of Biological Sciences*.  
 F. W. Bruckmiller, *Chemistry*.  
 J. J. Wheeler, *Mathematics*.  
 S. Lefschetz, *Mathematics*.  
 W. P. Haynes, *Geology, Mineralogy, and Petrology*.  
 D. Alter, *Astronomy*.  
 C. Estes, *Chemistry*.  
 C. H. Watson, *Teaching of Physical Sciences*.  
 M. A. Bills (Miss), *Psychology*.  
 H. Mck. Elsey, *Chemistry*.  
 E. Wertheim, *Chemistry*.  
 C. E. Johnson, *Zoology*.

**SCHOOLS OF MEDICINE AND PHARMACY.**
**Professors :**

- L. E. Sayre, *Pharmacy and Materia Medica*.  
 I. H. Hyde (Miss), *Physiology*.  
 M. T. Sudler, *Surgery*.  
 L. D. Havenhill, *Pharmacy*.  
 S. J. Crumbine, *Preventive Medicine*.  
 D. C. Guffey, *Obstetrics and Gynecology*.  
 L. S. Milne, *Medicine*.  
 R. H. Major, *Bacteriology and Pathology*.  
 G. E. Coghill, *Anatomy*.  
 O. O. Stoland, *Physiology*.  
 N. P. Sherwood, *Bacteriology*.  
 J. Block, *Genito-Urinary Surgery*.  
 S. S. Glasscock, *Psychiatry*.  
 I. J. Wolf, *Internal Medicine*.  
 F. E. Murphy, *Clinical Medicine*.  
 F. L. Uhls, *Psychiatry*.  
 A. L. Skoog, *Neurology*.  
 E. J. Curran, *Ophthalmology*.  
 P. T. Bohan, *Clinical Medicine*.  
 G. M. Gray, *Clinical Surgery*.  
 W. L. McBride, *Dermatology*.  
 R. L. Sutton, *Dermatology*.

**Associate Professors :**

- A. E. Hertzler, *Surgery*.  
 F. B. Sherbon (Miss), *Home Nursing*.  
 R. McE. Schaffler, *Orthopedic Surgery*.  
 W. F. Kuhn, *Psychiatry*.  
 W. K. Trimble, *Clinical Pathology*.  
 O. J. Cunningham, *Surgery*.  
 R. D. Irlano, *Obstetrics and Gynecology*.  
 T. D. Tuttle, *Preventive Medicine*.

**Assistant Professors :**

- C. M. Sterling, *Pharmacognosy*.  
 G. N. Watson, *Pharmacy*.  
 J. E. Welker, *Physiology*.  
 C. B. Francisco, *Orthopedic Surgery*.  
 C. R. Black, *Pathology*.  
 J. G. Hayden, *Surgery*.  
 E. P. Hall, *Otorhinolaryngology*.  
 H. F. Vanorden, *Gynecology and Obstetrics*.  
 C. C. Dennie, *Dermatology*.  
 T. G. Orr, *Surgery*.  
 S. E. Roberts, *Otorhinolaryngology*.

**SCHOOL OF ENGINEERING.**
**Professors :**

- P. F. Walker, *Industrial Engineering*.  
 G. C. Shaad, *Electrical Engineering*.  
 H. A. Rice, *Mechanics and Structural Engineering*.  
 C. C. Williams, *Railway Engineering*.  
 A. C. Terrill, *Mining and Ore Dressing*.  
 F. H. Sibley, *Mechanical Engineering*.  
 G. J. Hood, *Engineering Drawing*.

**Associate Professors :**

- M. E. Rice, *Physics and Electrical Engineering.*  
 C. A. Haskins, *Sanitary Engineering.*  
 W. C. McNow, *Civil Engineering.*  
 A. H. Sluss, *Mechanical Engineering.*  
 B. L. Wolfe, *Mining.*  
 F. E. Johnson, *Electrical Engineering.*

**Assistant Professors :**

- F. E. Jones, *Pattern Making and Founding.*  
 J. D. Garver, *Mechanical Engineering.*  
 F. L. Brown, *Mechanics.*  
 H. A. Roberts, *Civil Engineering.*  
 J. O. Jones, *Hydraulics.*  
 R. L. Grider, *Mining.*  
 F. M. Veatch, *Sanitary Engineering.*  
 W. A. Burton, *Sanitary Engineering.*

**SCHOOL OF LAW.**

**Professors :**

- J. W. Green, *Law.*  
 W. E. Higgins ,,  
 H. W. Humble ,,  
 E. D. Osborn ,,

**Associate Professor :**

- R. F. Rice, *Law.*

**SCHOOL OF FINE ARTS.**

**Professors :**

- C. A. Preyer, *Piano and Composition.*  
 W. A. Griffith, *Drawing and Painting.*

**Professors—Continued :**

- C. S. Skilton, *Organ, Theory of Music and Music History.*  
 G. Goldsmith, *Architecture.*  
 W. B. Downing, *Voice and Public School Music.*  
 H. L. Butler, *Voice.*  
 A. Nevin, *Ensemble and Music Extension.*  
 W. M. Hekking, *Drawing and Painting.*  
 F. E. Kendrie, *Violin and Orchestral Ensemble.*  
 W. V. Cahill, *Drawing and Painting.*

**Assistant Professors :**

- H. Greissing, (Miss), *Piano.*  
 A. L. Sweeney (Miss), *Piano.*  
 J. R. Frazier, *Drawing and Painting.*  
 P. Emley-Elliott (Miss) ,,

**SCHOOL OF EDUCATION.**

**Professors :**

- A. S. Olin, *Education.*  
 W. H. Johnson, *Education.*  
 R. A. Schwegler, *Education.*  
 F. J. Kelly, *Education.*  
 R. A. Kent, *Education.*

**Associate Professors :**

- H. W. Nutt, *Education.*  
 R. E. Carter, *Education.*  
 83 Instructors, 23 Assistant Instructors.

**Post-Graduate Courses.**—The following departments offer graduate work in the University. In the majority of them the facilities are adequate for thorough preparation for the doctor's degree, and in all of them the facilities are excellent for work leading to the master's degree. All the courses named are well equipped for graduate instruction. Laboratories and libraries are ample for this purpose. Especial opportunity is given for research and original investigation.

Anatomy, Ancient Languages, Bacteriology, Bacteriology and Pathology, Botany, Chemistry, Economics and Commerce, Education, Engineering, Engineering Mechanics, Civil Engineering, Electrical Engineering, Mining Engineering, English Language and Literature, Entomology, Fine Arts, Geology and Mineralogy, Germanic Languages and Literature, Hispanic Languages and Literature, History and Political Science, Home Economics, Journalism, Law, Mathematics, Pharmaceutical and Biological Chemistry, Philosophy and Psychology, Physics and Astronomy, Physiology, Romance Languages and Literatures, Sociology, Zoology.

**Museums.**—

The scientific collections belonging to the University are grouped according to the teaching department in charge.

The botanical collection contains 10,000 identified and labelled specimens.

The entomological collections comprise about 26,000 species and 300,000 specimens.

Geology is represented by extensive collections of specimens in economic, petrographic, and mineralogical groups.

In paleobotany and paleontology the collection is one of the most complete in America.

The zoological collections are rich and varied.

The classical museum contains a collection of casts of Greek and Roman sculpture, facsimile reproductions of objects of art and utility, original coins and photographs.

**Libraries.**—The Libraries of the University contain 125,212 volumes and some 44,000 pamphlets. The periodical room receives 1,185 periodicals and publications

of learned societies, and 121 newspapers published in Kansas. The departments of Germanic Languages, Romance Languages, Latin, English, Education, American and European History, Sociology, and Economics have special reading-rooms in Spooner Library.

Nine Departmental Libraries are housed in the buildings used by their respective departments or schools, each in charge of an assistant librarian.

The Library of the Kansas Academy of Science, in charge of the secretary of the Academy, is housed in Fraser Hall.

## LEEDS.

### THE UNIVERSITY OF LEEDS.

#### Site:

Arts: Science, and Technology, College Road, Leeds.  
 Medicine: School of Medicine, Thoresby Place, Leeds.  
 Agriculture: Manor Farm, Garforth, near Leeds.

#### Date of Foundation:

1831, Foundation of the Leeds School of Medicine.  
 1874, Foundation of the Yorkshire College of Science.  
 1877, Foundation of a Faculty of Arts in the Yorkshire College.  
 1878, Incorporation of the College under the Companies' Acts, with the name "The Yorkshire College."  
 1884, Union of the Leeds School of Medicine with the Yorkshire College.  
 1887, Admission of the Yorkshire College as a constituent college of the Victoria University.  
 1904, Charter of the University of Leeds.

*Terms:* Three per year.

*Students (1917-18):* 758.

#### Budget (1917-18):

Income (including Fees, £11,102, and Government and County Council Grants, £44,550)	£69,673
Expenditure	69,167

Capital Funds, £436,990, of which £316,208 has been spent in land, buildings, and equipment.

### OFFICIALS.

*Chancellor.*—His Grace the Duke of Devonshire, K.G., G.C.M.G., G.C.V.O., LL.D.

*Pro-Chancellor.*—A. Greenhow Lupton, LL.D.

*Vice-Chancellor.*—Sir Michael E. Sadler, K.C.S.I., C.B., LL.D., Litt.D.

*Pro-Vice-Chancellor.*—Prof. Charles M. Gillespie, M.A.

*Treasurer.*—The Hon. Rupert E. Beckett.

*Accountant.*—George R. Brench.

*Clerk to the Senate.*—Fred T. Baines, B.A.

*Secretary.*—Archibald E. Wheeler.

**Degrees conferred.**—B.A., B.Com., B.Sc., LL.B., M.B., Ch.B., B.Ch.D., M.A., M.Sc., LL.M., M.Ch., M.Ch.D., Ph.D., Litt.D., LL.D., D.Sc., M.D.

**Hoods.**—All hoods are to be of a green shade, combined with black, white, scarlet, or with one another, to produce the variations required for the several degrees, namely:

Degrees.	Hoods.
B.A.	Self-coloured hood of dark green shade.
B.Com.	Light green hood, lined with dark green.
B.Sc.	Self-coloured hood of middle green shade.
M.B. and Ch.B.	Hood of dark green, lined with light green.
LL.B.	Self-coloured hood of light green shade.
B.Ch.D.	Hood of dark green, lined with middle green.
M.A.	Dark green hood, with white lining.
M.Sc.	Middle green hood, with white lining.
LL.M.	Light green hood, with white lining.
M.Ch.	Dark green hood, edged with light green, and lined with white.
M.Ch.D.	Dark green hood, edged with middle green, and lined with white.



All Bachelors' hoods are to be lined, and all Bachelors' and Masters' hoods are to be of the single or Oxford pattern.

The Doctors' gown is to be of scarlet, with facings and sleeve linings of the shade of green distinctive of his faculty. The hood is to be of scarlet, lined with the distinctive shade or shades of green.

## PROFESSORS.

## FACULTY OF ARTS

(Including Commerce and Laws).

- P. Barbier fils, *French*.  
 B. M. Connal, *Latin*.  
 J. H. Jones, *Economics*.  
 C. M. Gillespie, *Philosophy*.  
 G. S. Gordon, *English Language and Literature*.  
 A. J. Grant, *History*.  
 J. D. I. Hughes, *Law*.  
 W. R. Roberts, *Greek*.  
 J. Strong, *Education*.  
 30 Assistants.

## FACULTY OF SCIENCE.

- J. B. Cohen, *Organic Chemistry*.  
 W. Garstang, *Zoology*.  
 P. F. Kendall, *Geology*.  
 W. P. Milne, *Mathematics*.  
 J. H. Priestley, *Botany*.  
 A. Smithells, *Chemistry*.  
 R. Whiddington, *Physics*.  
 24 Assistants.

## FACULTY OF TECHNOLOGY.

- A. F. Barker, *Textile Industries*.

Post-Graduate Courses by arrangement.

Museums.—There are Museums in connection with most of the Scientific, Technological, and Medical Departments.

## Libraries.—

- Leeds University Library. *Librarian*: R. Offor, M.A.  
 Leeds School of Medicine Library. *Honorary Librarian*: Dr. J. B. Hellier.  
 Also Departmental Libraries.

## AFFILIATED INSTITUTIONS.

- College of the Resurrection, Mirfield.  
 The Technical College, Huddersfield.  
 Rawdon College, near Leeds.

LEHIGH UNIVERSITY. *See* BETHLEHEM.

LELAND STANFORD JUNIOR UNIVERSITY. *See* STANFORD UNIVERSITY.

## LENNOXVILLE (Quebec).

UNIVERSITY OF BISHOP'S COLLEGE. No particulars received.

## LEXINGTON (Kentucky).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director*—T. P. Cooper.

LICK OBSERVATORY. *See* MOUNT HAMILTON.

## Faculty of Technology—Continued:

- J. W. Cobb, *Fuel Industries with Metallurgy*.  
 J. Goodman, *Engineering*.  
 E. L. Hummel, *Mining*.  
 D. McCandlish, *Leather Industries*.  
 A. G. Perkin, *Colour Chemistry and* [Dyeing].  
 R. S. Seton, *Agriculture*.  
 54 Assistants.

## FACULTY OF MEDICINE

(Including Dentistry).

- A. G. Barrs, *Clinical Medicine*.  
 J. S. Bolton, *Mental Diseases*.  
 E. O. Croft, *Obstetrics and Gynecology*.  
 F. W. Eurich, *Forensic Medicine*.  
 T. W. Griffith, *Medicine*.  
 J. K. Jamieson, *Anatomy*.  
 B. G. A. Moynihan, *Clinical Surgery*.  
 H. S. Raper, *Physiology and Biochemistry*.  
 M. J. Stewart, *Pathology and Bacteriology*.  
 23 Assistants, 8 Clinical Lecturers.  
 In the School of Dentistry, 5 Lecturers and 10 Clinical Lecturers.

## LINCOLN (Nebraska).

THE UNIVERSITY OF NEBRASKA, Lincoln, Nebraska. (1869.)

*Terms* : Three per year.*Students* : 5,617.*Budget* : Total resources for the school year 1919-20, \$2,230,390.00.

## OFFICIALS.

*Chancellor*.—S. Avery.*Secretary*.—J. S. Dales.*Provost*.—James T. Lees.*Registrar*.—Florence I. McGahey.*Superintendent of Construction*.—C. E. Chowins.*Executive Dean*.—C. C. Engberg.*Dean of Women*.—Amanda H. Heppner.*Director of University Extension*.—A. A. Reed.

**Degrees conferred**.—B.A., B.S., B.F.A., B.S. in H.E., B.S.A., B.S. in A.E., B.S. in M.E., B.S. in C.E., B.S. in E.E., LL.B., D.M., Ph.G., Ph.C., B.S. in Business, D.D.S., M.A., M.S., Ph.D., M.E., A.E., C.E., E.E., J.D., and occasionally honorary degrees.

## PROFESSORS.

## COLLEGE OF ENGINEERING.

O. V. P. Stout, *Dean*.**Professors :**L. W. Chase, *Agricultural Engineering*.

E. E. Brackett

O. W. Sjogren

G. R. Chatburn, *Applied Mechanics*.

P. K. Slaymaker

O. V. P. Stout, *Civil Engineering*.L. W. Chase, *Mechanical Engineering*.W. L. De Banfre, *Mechanical Engineering*.O. J. Ferguson, *Electrical Engineering*.**Associate Professors :**A. A. Baer, *Agricultural Engineering*.

C. W. Smith

I. D. Wood

C. E. Mickey, *Applied Mechanics*.J. W. Haney, *Mechanical Engineering*.V. L. Hollister, *Electrical Engineering*.**Assistant Professors :**R. Carpenter, *Agricultural Engineering*.A. A. Luebs, *Mechanical Engineering*.E. O. Edison, *Electrical Engineering*.A. E. Bunting, *Mechanical Engineering*.

5 Instructors.

## COLLEGE OF BUSINESS ADMINISTRATION.

J. E. Le Rossignol, *Dean*.**Professors :**

J. E. Le Rossignol. G. O. Virtue.

O. R. Martin.

**Associate Professors :**

J. E. Kirshman. P. W. Ivey.

**Assistant Professors :**

T. T. Bullock. D. F. Cole.

M. England (Miss).

## COLLEGE OF DENTISTRY.

W. C. Davis, *Dean*.**Professors :**G. A. Grubb, *Dental Science and Literature*.J. I. Davis, *Prosthetic Dentistry*.**Associate Professor :**P. R. James, *Operative and Clinical Dentistry*.**Assistant Professors :**C. A. Nelson, *Operative and Clinical Dentistry*.B. C. Wildman, *Prosthetic Dentistry*.C. E. Brown, *Orthodontia*.

15 Instructors.

## COLLEGE OF PHARMACY.

R. A. Lyman, *Dean*.**Professor :**

R. A. Lyman.

**Assistant Professor :**

E. Day (Miss).

## COLLEGE OF LAW.

W. G. Hastings, *Dean*.**Professors :**

W. G. Hastings. E. Maxey.

C. A. Robbins.

**Assistant Professors :**

J. H. Broady. G. N. Foster.

J. J. Ledwith. R. P. Wilson.

## COLLEGE OF MEDICINE.

I. S. Cutter, *Dean*.**Professors :**C. W. M. Poynter, *Anatomy*.W. A. Willard, *Anatomy*.A. Schalek, *Dermatology and Syphilology*.

**Professors—Continued :**

C. W. Pollard, *Gynecology and Obstetrics.*  
 W. O. Bridges, *Internal Medicine.*  
 W. F. Milroy       "       "  
 L. Crummer       "       "  
 F. S. Owen, *Laryngology and Rhinology.*  
 C. A. Young, *Nervous and Mental Diseases.*  
 H. Gifford, *Ophthalmology and Otology.*  
 J. P. Lord, *Orthopedic Surgery.*  
 H. M. McClanahan, *Pediatrics.*  
 H. E. Eggers, *Pathology and Bacteriology.*  
 A. F. Jonas, *Surgery.*  
 B. B. Davis       "       "  
 A. W. Peters, *Bio-Chemistry.*  
 A. E. Guenther, *Physiology.*  
 M. I. Smith, *Pharmacology.*

**Associate Professor :**

A. C. Stokes, *Surgery.*

**Assistant Professors :**

R. W. Bliss, *Internal Medicine.*  
 J. M. Bannister, *Internal Medicine.*  
 E. L. Bridges, *Internal Medicine.*  
 J. M. Patton, *Ophthalmology and Otology.*  
 B. W. Christie, *Pediatrics.*  
 A. A. Johnson, *Pathology and Bacteriology.*  
 J. T. Meyers, *Pathology and Bacteriology.*  
 E. T. Manning, *Pathology and Bacteriology.*  
 C. C. Morrison, *Surgery.*  
 R. R. Hollister       "  
 J. S. Goetz, *Therapeutics.*  
 C. R. Kennedy, *Urology.*  
 21 Instructors.

**COLLEGE OF AGRICULTURE.**

E. A. Burnett, *Dean.*

**Professors :**

H. E. Bradford, *Agricultural Education.*  
 W. H. Brokaw, *Agricultural Extension.*  
 R. F. Holland       "       "  
 L. E. Frisbie       "       "  
 L. T. Skinner       "       "  
 B. C. Danley       "       "  
 K. F. Warner       "       "  
 D. H. Propps       "       "  
 I. D. Wood       "       "  
 E. H. Hoppert       "       "  
 H. O. Werner       "       "  
 H. M. Wells       "       "  
 P. K. Whelpton       "       "  
 W. W. Burr, *Agronomy.*  
 F. D. Keim       "       "  
 T. A. Kiesselbach, *Agronomy.*  
 H. J. Gramlich, *Animal Husbandry.*  
 F. E. Mussehl, *Poultry*       "  
 L. Van Es, *Animal Pathology.*  
 J. H. Gain       "       "  
 H. M. Martin       "       "

**Professors—Continued :**

J. H. Frandsen, *Dairy Husbandry.*  
 L. Bruner, *Entomology.*  
 M. H. Swenk, *Entomology.*  
 R. F. Howard, *Horticulture.*  
 E. M. Wilcox, *Plant Pathology and Physiology.*  
 H. C. Filley, *Rural Economics.*  
 J. O. Rankin       "       "

**Associate Professors :**

C. A. Lewis, *Agricultural Extension.*  
 J. L. Gilmore       "       "  
 H. J. Young       "       "  
 G. A. Reed       "       "  
 J. F. Lawrence       "       "  
 — Gaines       "       "  
 M. Rokahr (Miss)       "       "  
 F. Dunn (Miss)       "       "  
 M. E. Brown (Miss)       "       "  
 C. D. Kinsman       "       "  
 C. E. Mickel       "       "  
 G. R. Davis       "       "  
 E. Ord (Miss)       "       "  
 — McMurry       "       "  
 E. Gollmar (Miss)       "       "  
 E. Greene (Miss)       "       "  
 R. W. Carpenter       "       "  
 F. L. Taylor       "       "  
 P. L. Gaddis, *Agronomy.*  
 W. J. Loeffel, *Animal Husbandry.*  
 J. W. Harris (Miss), *Home Economics.*  
 G. W. Hood, *Horticulture.*  
 E. H. Hoppert, *Horticulture.*

**Assistant Professors :**

T. H. Godding, *Agronomy.*  
 J. C. Russel       "       "  
 E. R. Davis       "       "  
 E. L. Jenkins, *Animal Husbandry.*  
 H. B. Pier       "       "  
 K. F. Warner       "       "  
 E. H. Krause, *Dairy Husbandry.*  
 B. H. Thompson       "       "  
 R. W. Dawson, *Entomology.*  
 C. E. Mickel       "       "  
 E. Anderson (Miss), *Plant Pathology and Physiology.*  
 C. H. Heard, *Rural Economics.*  
 A. W. Medlar       "       "  
 E. L. Rhoades       "       "  
 10 Instructors.

**COLLEGE OF ARTS AND SCIENCES.**

P. M. Buck, *Dean.*

**TEACHERS' COLLEGE.**

C. Fordyce, *Dean.*

**Professors :**

H. W. Caldwell, *American History.*  
 G. D. Swezey, *Astronomy.*  
 G. A. Loveland       "  
 H. H. Waite, *Bacteriology.*  
 R. J. Pool, *Botany.*  
 J. E. Weaver, *Botany.*

**Professors—Continued :**

F. W. Upson, *Chemistry*.  
 H. G. Deming     "  
 C. Fordyce, *Education*.  
 H. Brownell     "  
 A. A. Reed       "  
 C. W. Taylor     "  
 Lida B. Earhart, *Elementary Education*.  
 G. Jones, *English History*.  
 L. W. Sherman, *English*.  
 F. A. Stuff       "  
 L. Pound (Miss)   "  
 F. M. Fling, *European History*.  
 W. F. Dann, *Art History and Criticism*.  
 P. H. Grumann, *Fine Arts*.  
 N. A. Bengtson, *Geography*.  
 E. H. Barbour, *Geology*.  
 E. F. Schramm     "  
 L. Fossler, *Modern Languages*.  
 J. Warshaw       "  
 H. H. Vaughan    "  
 J. T. Lees, *Ancient Languages*.  
 A. L. Candy, *Mathematics*.  
 W. C. Brenke     "  
 C. C. Engberg     "  
 W. F. Morrison, *Military Science*.  
 H. B. Alexander, *Philosophy and Psychology*.  
 W. Hyde (Miss), *Philosophy and Psychology*.  
 R. C. Bentley, *Philosophy*.  
 R. G. Clapp, *Physical Education*.  
 J. E. Almy, *Physics*.  
 B. E. Moore       "  
*Physiology* (see College of Pharmacy).  
 G. E. Howard, *Political Science and Sociology*.  
 L. E. Aylsworth, *Political Science and Sociology*.  
 H. Webster, *Political Science and Sociology*.

**Graduate College.**—Dean : L. A. Sherman. Provides courses in nearly all the University Departments.

**Museum.**—Geological Museum. Curator : E. H. Barbour.

**Libraries.**—The University Library. Librarian : Malcolm G. Wyer. Assistant Librarian : Nellie J. Compton. Departmental Libraries.

**Professors—Continued :**

H. Williams, *Political Science and*  
 P. M. Buck, *English*. [Sociology].  
 M. M. Fogg       "  
 P. H. Frye        "  
 S. B. Gass        "  
 G. E. Barber, *Ancient Languages*.  
 C. Conklin (Miss), *Modern Languages*.  
 R. H. Wolcott, *Zoology*.  
 F. D. Barker     "  
 D. D. Whitney    "

**Associate Professors :**

J. A. Rice, *Ancient Languages*.  
 E. Walker, *Botany*.  
 L. Walker        "  
 D. J. Brown, *Chemistry*.  
 J. W. Calvin     "  
 R. D. Scott, *English*.  
 L. Pfeiffer (Miss), *European History*.  
 A. Howell (Miss), *Fine Arts*.  
 E. Webster (Miss), *Geology*.  
 M. G. Gaba, *Mathematics*.  
 A. Clapp (Mrs.), *Physical Education*.  
 J. P. Senning, *Political Science and Sociology*.  
 E. Reese (Miss), *Modern Languages*.  
 F. W. Sanford, *Ancient Languages*.

**Assistant Professors :**

T. J. Fitzpatrick, *Botany*.  
 C. J. Frankforter, *Chemistry*.  
 B. C. Hendricks    "  
 R. E. Cochran, *American History*.  
 B. C. Grant, *Fine Arts*.  
 L. Mundy (Miss), *Fine Arts*.  
 C. Barbour (Miss), *Geology*.  
 A. Babbitt, *Mathematics*.  
 L. Runge (Miss)    "  
 M. McPhee (Miss), *Rhetoric*.  
 M. Weseen, *Rhetoric*.  
 J. E. A. Alexis, *Modern Languages*.  
 22 Instructors.

**LIVERPOOL.**

**LIVERPOOL UNIVERSITY**, Brownlow Hill. (1881.)

*Terms :* Three per year.

*Students :* 2,237.

*Budget :*

The assets of the University are now valued at upwards of £1,113,327, and the annual income is over £80,000.

The expenditure for Session 1917-18 amounted to £85,093 8s. 9d.

**OFFICERS AND OFFICIALS.**

*Chancellor.*—The Right Hon. the Earl of Derby, K.G., G.C.V.O., LL.D.

*Vice-Chancellor.*—Col. J. G. Adami, C.B.E., M.A., F.R.S.

*Registrar.*—Edward Carey, LL.B.

*Librarian.*—John Sampson, M.A., D.Litt.



Degrees conferred :

<i>Degrees.</i>		<i>Hoods.</i>
B.A. and B.Com. Sc.		Black cloth, lined with apple-blossom silk, the colour of the Faculty, and bordered with white fur.
B.Arch.	- -	Black cloth, lined with white silk, edged with two narrow lines of black velvet, and bordered with white fur.
M.A.	- -	Black silk or cloth, lined with apple-blossom silk.
Litt.D.	- -	Scarlet cloth, lined with apple-blossom silk.
B.Sc.	- -	Black cloth, lined with slate-blue silk, the colour of the Faculty, and bordered with white fur.
M.Sc.	- -	Black silk or cloth, lined with slate-blue silk.
D.Sc.	- -	Scarlet cloth, lined with slate-blue silk.
M.B. and Ch.B.	-	Black cloth, lined with lavender silk, the colour of the Faculty, and bordered with white fur.
Ch.M. and M. H.	-	Black silk or cloth, lined with lavender silk.
M.D.	- -	Scarlet cloth, lined with lavender silk.
B.D.S.	- -	Black cloth, lined with dark red silk, and bordered with white fur.
M.D.S.	- -	Black silk or cloth, lined with dark red silk.
B.V.Sc.	- -	Black cloth, lined with grey silk, and bordered with white fur.
M.V.Sc.	- -	Black cloth, lined with grey silk.
D.V.Sc.	- -	Scarlet cloth, lined with grey silk.
LL.B.	- -	Black cloth, lined with bronze silk, the colour of the Faculty, and bordered with white fur.
LL.M.	- -	Black silk or cloth, lined with bronze silk.
LL.D.	- -	Scarlet cloth, lined with bronze silk.
B. Eng.	- -	Black cloth, lined with orange silk, the colour of the Faculty, and bordered with white fur.
M.Eng.	- -	Black silk or cloth, lined with orange silk.
D.Eng.	- -	Scarlet cloth, lined with orange silk.

PROFESSORS.

FACULTY OF ARTS.

Professors :

L. P. Abercrombie, *Civic Design*.  
 R. C. Bosanquet, *Classical Archeology*.  
 A. B. Boswell, *Russian*.  
 E. T. Campagnac, *Education*.  
 F. S. Carey, *Mathematics*.  
 R. H. Case, *English Literature*.  
 W. E. Collinson, *German*.  
 O. Elton, *English Literature*.  
 Sir J. G. Frazer, *Social Anthropology*.  
 J. Garstang, *Methods and Practice of Archeology*.  
 E. C. K. Gonner, *Economics*.  
 W. R. Halliday, *Ancient History*.  
 A. Mair, *Philosophy*.  
 (Vacant), *Egyptology*.  
 J. P. Postgate, *Latin*.  
 C. H. Reilly, *Architecture*.  
 P. M. Roxby, *Geography*.  
 A. C. Pearson, *Greek*.  
 C. K. Webster, *Modern History*.  
 H. C. K. Wyld, *English Language*.  
 W. H. Young, *Philosophy and History of Mathematics*.

Lecturers :

H. A. Ormerod, *Greek*.  
 M. T. Smiley, *Latin*.  
 G. E. Renault, *French*.  
 P. Rébora, *Italian*. (Sen.)

Lecturers—Continued :

J. Glyn Davies, *Celtic*. (Senior Lecturer in Welsh.)  
 L. Abercrombie, *Poetry*.  
 G. W. Coopland, *Medieval History*.  
 W. G. Jones, *History*.  
 G. S. Veitch, *Modern History*.  
 J. A. Twemlow, *Paleography and Diplomatics*.  
 J. Montgomery, *Commercial Theory and Practice*.  
 R. A. Macdonald, *Economics*.  
 M. H. L. Davies (Miss), *Methods and Practice of Social Work*.  
 E. Rathbone (Miss), *Local Government*.  
 G. C. Field, *Philosophy*.  
 F. A. Colle (Miss), *Education*.  
 L. B. Budden, *Architecture*.  
 T. H. Mawson, *Landscape Design*.  
 H. C. Dowdall, *Civic Law*.  
 S. Proudman, *Applied Mathematics and Mathematical Hydrography*.  
 A. Boole-Stott (Hon.), *Mathematics*.  
 A. W. Pollitt, *Music*.  
 11 Assistant Lecturers.

FACULTY OF SCIENCE.

Professors :

E. C. C. Baly, *Inorganic Chemistry*.  
 J. M. Beattie, *Bacteriology*.  
 P. G. H. Boswell, *Geology*.

**Professors—Continued :**

- L. Doncaster, *Zoology*.  
R. J. Harvey-Gibson, *Botany*.  
W. A. Herdman, *Oceanography*.  
W. C. McCullagh Lewis, *Physical Chemistry*.  
R. Newstead, *Entomology*.  
W. Ramsden, *Bio-Chemistry*.  
R. Robinson, *Organic Chemistry*.  
L. R. Wilberforce, *Physics*.

**Lecturers :**

- J. Rice, *Physics*.  
J. Smeath Thomas, *Analytical Chemistry*.  
A. Holt, *Physical Chemistry*.  
F. W. Kay, *Applied Organic Chemistry*.  
E. G. Jones, *Public Health Chemistry*.  
R. C. Bamber (Miss), *Zoology*.  
S. T. Burfield                   "  
M. Baldwin (Miss)           "  
J. Johnstone, *Oceanography*.  
J. T. Jenkins, *Sea Fisheries*. (Hon.)  
A. Scott, *Economic Ichthyology*.  
H. C. Chadwick, *Marine Biology*.  
W. H. Roberts, *Public Health Chemistry*.  
12 Assistant Lecturers.

**FACULTY OF MEDICINE.**
**Professors :**

- J. H. Abram, *Therapeutics*.  
H. Briggs, *Midwifery*.  
R. J. McL. Buchanan, *Forensic Medicine*.  
E. E. Glynn, *Pathology*. [cine.  
T. R. Glynn, *Medicine*.  
E. W. Hope, *Hygiene*.  
J. S. Macdonald, *Physiology*.  
R. Parker, *Surgery*.  
J. W. W. Stephens, *Tropical Medicine*.  
W. T. Thomas, *Regional Surgery*.  
W. Yorke, *Parasitology*.

**Lecturers :**

- D. Douglas-Crawford, *Surgical and Applied Anatomy*.  
W. H. Broad, *Physical Anthropology*.  
F. A. Duffield, *Physiology*.  
Sir R. Jones, *Orthopedic Surgery*.  
R. E. Kelly, *Practical Surgery*.  
K. W. Monsarrat, *Operative Surgery*.  
J. E. W. MacFall, *Forensic Medicine, Toxicology*.  
A. A. Mussen, *Hygiene, Practical Sanitation*.  
W. Hanna, *Public Health Administration*.  
T. H. Bickerton, *Ophthalmology*.  
T. P. Cowen, *Mental Diseases*.  
P. Davidson, *Diseases of Children*.  
J. H. Abram, *Clinical Medicine*.  
J. M. Bligh                   "  
R. J. M. Buchanan, *Clinical Medicine*.  
A. G. Gullan               "       "  
J. Hay                   "       "  
C. J. Macalister       "       "

**Lecturers—Continued :**

- J. Owen, *Clinical Medicine*.  
J. L. Roberts       "       "  
R. A. Bickersteth, *Clinical Surgery*.  
D. D. Crawford       "       "  
A. J. Evans           "       "  
Sir R. Jones           "       "  
T. C. L. Jones       "       "  
F. C. Larkin       "       "  
K. W. Monsarrat       "       "  
G. P. Newbolt       "       "  
G. C. E. Simpson       "       "  
W. T. Thomas       "       "  
W. B. Bell, *Gynecology*.  
C. Rundle, *Infectious Diseases*.  
W. Hanna, *Vaccination*.  
P. H. Marsden, *Materia Medica and Pharmacy*.  
F. P. Wilson, *Specific Diseases*.  
H. Leslie-Roberts, *Dermatology*.  
W. Permewan, *Laryngology*.  
3 Assistant Lecturers.

**FACULTY OF ENGINEERING.**
**Professors :**

- T. B. Abell, *Naval Architecture*.  
E. W. Marchant, *Applied Electricity*.  
S. W. Perrott, *Civil Engineering*.  
W. H. Watkinson, *Engineering*.

**Assistant Professor :**

- W. Mason, *Strength of Materials*.

**Lecturers :**

- G. E. Scholes, *Engineering*.  
F. J. Teago, *Electrical Engineering*.  
T. R. Wilton, *Dock and Harbour Construction*. [tions.  
E. J. Rimmer, *Contracts and Specifications*.  
W. Anderson, *Engineering Design and Drawing*.  
J. W. Anderson, *Refrigeration*.  
8 Assistant Lecturers.

**FACULTY OF LAW.**
**Professors :**

- F. R. Batt, *Commercial Law*.  
W. L. Blease, *Law*.  
His Honour Judge A. P. Thomas, *International Law*.

**Lecturers :**

- J. Findlay, *Equity and Jurisprudence*.  
G. W. Coopland, *English Constitutional History*.

**DENTAL SURGERY.**
**Lecturers:**

- J. A. Woods, *Dental Anatomy, Physiology, and Dental Histology*.  
W. H. Gilmour, *Dental Surgery*.  
H. W. P. Bennetto, *Operative Dental Surgery*.  
L. Osborn, *Dental Mechanics*.  
J. S. Thomas, *Dental Metallurgy*.  
P. H. Marsden, *Materia Medica*.  
R. Edwards, *Clinical Dental Surgery*.

**VETERINARY SCIENCE.**

**Lecturers :**

S. Jackson, *Stable Management*.  
 H. Sumner     "     "  
 F. C. Lewis, *Bacteriological Methods*.  
 P. H. Marsden, *Materia Medica and Pharmacy*.  
 H. Sumner, *Materia Medica and Pharmacy*. [*Toxicology*.]  
 J. E. W. McFall, *Jurisprudence and*

**Lecturers—Continued :**

A. A. Mussen, *Dietetics and Hygiene*.  
 H. Sumner, *Veterinary Medicine*.  
 J. S. Jones, *Veterinary Surgery and Operative Veterinary Surgery*.  
 J. S. Jones, *Meat Inspection*. [*Surgery*.]  
 H. Sumner, *Clinical Medicine and Surgery*.  
 S. Jackson, *Clinical Medicine and Surgery*. [*Surgery*.]  
 T. E. Jones, *Clinical Medicine and*

**Post-Graduate Courses.**—In all the Departments of the University every encouragement is given to graduates and other persons possessing suitable qualifications to study for higher degrees and diplomas, and every facility afforded for carrying out original investigations. Certain Departments are entirely devoted to post-graduate teaching and research work.

The degree of Doctor in the Faculties of Arts, Science, Medicine, Law, and Engineering is awarded for research, and the degree of Master may be obtained by research as well as by examination.

A Doctorate in the Faculties of Art, Science, Medicine, and Engineering (Doctor in Philosophy) has also been established.

**Museums.**—Museums of Archeology, Anatomy, Pathology, Zoology, Botany, Geology, Chemistry, Materia Medica, Gynecology, Hygiene, Surgery, and Forensic Medicine.

**Library.**—University Library.

**AFFILIATED INSTITUTIONS.**

St. Aidan's College, Birkenhead.  
 Edge Hill Training College.  
 Mount Pleasant Training College.  
 The Royal Infirmary.  
 Royal Southern Hospital.  
 David Lewis Northern Hospital.  
 Stanley Hospital.  
 Hospital for Women (Shaw Street).  
 Infirmary for Children.  
 Eye and Ear Infirmary.  
 St. Paul's Eye and Ear Hospital.  
 Liverpool Maternity Hospital and Ladies' Charity.  
 St. George's Hospital for Diseases of the Skin.  
 The Dental Hospital.  
 Wigan Infectious Diseases Hospital.  
 City Hospital South (Parkhill Road and Grafton Street).  
 City Hospital North (Netherfield Road).  
 City Hospital East (Mill Land).  
 City Hospital (Fazakerley).  
 Birkenhead Fever Hospital.  
 Bootle Fever Hospital.  
 Wigan Fever Hospital.  
 Wallasey Infectious Diseases Hospital.

**LIVERPOOL SCHOOL OF TROPICAL MEDICINE. (1899.)**

A research institution for the study of Tropical Medicine and Hygiene.

*Terms :* Two per year and an advanced course.

**OFFICERS.**

*Hon. President.*—H.R.H. Princess Helena Victoria.

*Chairman.*—Mr. F. C. Danson.

*Vice-Chairman.*—R. Caton, M.D., LL.D., F.R.C.P.

*Hon. Vice-Presidents.*—

The Earl of Derby, K.G., G.C.V.O.

Viscount Milner, G.C.B.

Lord Pirrie, K.P.

Lord Leverhulme.

Sir Owen Philipps, K.C.M.G., M.P.

Sir Edward Merewether, K.C.V.O.

Mr. O. Harrison Williams.

## STAFF.

## 1. At the University of Liverpool.

*Professors :*

Lieut.-Col. J. W. W. Stephens, *Tropical Medicine*.  
 R. Newstead, *Entomology*.  
 W. Yorke, *Parasitology*.

*Lecturers :*

E. W. Hope, *Municipal Sanitation*.  
 H. F. Carter, *Entomology*.  
 A. M. Evans, „ [Sanitation].  
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## 3. At the Yellow Fever Research Laboratory of the School, Manaois.

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**Publication**.—Annals of Tropical Medicine and Parasitology.

**Laboratory**.—Pembroke Place, Liverpool.

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Royal Infirmary, Liverpool.

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M.Sc. (Vet.)		
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 H. W. M. Tims, O.B.E., M.D., Ch.M., M.A., F.L.S., F.Z.S., *Zoology*.

*Director of School of Librarianship* (University College).—E. A. Baker, D.Lit., M.A.

There are also a number of other Teachers organized under two categories, viz.: (1) "Appointed Teachers,"—i.e., such as have been appointed by the University with that express designation; (2) "Recognized Teachers,"—i.e., such as have been appointed either by the University itself or by one of its "Schools," or by one of the other Institutions at which instruction is given under its auspices, and have been recognized by the Senate as conducting work of University standard.

*Dean of the Faculty of Arts*.—Sir Sidney Lee, D.Litt., Litt.D., LL.D., F.B.A.  
 Appointed Teachers, 46; Recognized Teachers, 170.

*Dean of the Faculty of Science*.—A. N. Whitehead, Sc.D., M.A., F.R.S.  
 Appointed Teachers, 47; Recognized Teachers, 207.

*Dean of the Faculty of Medicine*.—Sir Bertrand E. Dawson, G.C.V.O., K.C.M.G., C.B., M.D., B.Sc., F.R.C.P., M.R.C.S.  
 Appointed Teachers, 15; Recognized Teachers, 328.

*Dean of the Faculty of Engineering*.—H. C. H. Carpenter, Ph.D., M.A., A.R.S.M., M.I.M.M., F.R.S.  
 Appointed Teachers, 12; Recognized Teachers, 67.

*Dean of the Faculty of Theology*.—Rev. P. Taylor Forsyth, M.A., D.D.  
 Appointed Teachers, 0; Recognized Teachers, 19.

*Dean of the Faculty of Economics*.—The Hon. W. Pember Reeves, Ph.D.  
 Appointed Teachers, 13; Recognized Teachers, 13.

*Dean of the Faculty of Laws.*—H. J. Hay Mackay, M.A., LL.B.

Appointed Teachers, 3; Recognized Teachers, 14.

*Dean of the Faculty of Music.*—Sir W. Parratt, C.V.O., Mus.Doc., M.A.

Appointed Teacher, 1; Recognized Teachers, 21.

**Post-Graduate Courses.**—See particulars under the various constituent Colleges.

**Library.**—100,000 volumes.

## I.—THE UNIVERSITY.

On January 1, 1907, University College, which was by the Statutes of 1900 made a "School of the University" (see II. below) in the Faculties of Arts, Laws, Medicine, Science, Engineering, and Economics, was transferred to the University, of which it now forms an integral part. Matriculated Students working at the College in any of these Faculties are "Internal Students of the University."

On January 1, 1910, King's College, which was by the Statutes of 1900 made a "School of the University" (see II. below) in the Faculties of Theology, Arts, Laws, Medicine, Science, Engineering, and Economics, was, in respect of all its Departments, except that of Theology, transferred to the University, of which it now forms an integral part, but is divided into two separate institutions, viz.: (a) "King's College" (in the Faculties of Arts, Laws, Medicine, Science, Engineering, and Economics), and (b) "King's College for Women" (in the Faculties of Arts and Science). Matriculated Students working at these institutions in any of the faculties respectively indicated are "Internal Students of the University." The Theological Department of the College remains a "School of the University" in the Faculty of Theology (see II. below).

Other Institutions maintained by the University are the Brown Animal Sanatory Institution in Wandsworth Road, the Physiological Laboratory in the University buildings at South Kensington, Goldsmiths' College at New Cross, the Francis Galton Laboratory for National Eugenics at University College, and the Ratan Tata Department of Social Science and Administration at the London School of Economics and Political Science.

## II.—SCHOOLS OF THE UNIVERSITY.

The following is a list of the Schools of the University in the Statutory Order of the Faculties:

### In the Faculty of Theology:

New College, Hampstead.  
Hackney College, Hampstead.  
Regent's Park College.  
King's College (Theological Department).  
Wesleyan College, Richmond.  
St. John's Hall, Highbury.

### In the Faculty of Arts:

Royal Holloway College.  
Bedford College for Women.  
East London College.  
Westfield College.  
London Day Training College (in Pedagogy only).  
School of Oriental Studies (for Research in Oriental subjects).

### In the Faculty of Laws:

None.

### In the Faculty of Music:

None.

### In the Faculty of Medicine:

The Schools of Medicines of St. Bartholomew's Hospital, St. Thomas's Hospital Westminster Hospital, Guy's Hospital, St. George's Hospital, London Hospital, Middlesex Hospital, Charing Cross Hospital, University College Hospital, King's College Hospital, and St. Mary's Hospital.  
The London (Royal Free Hospital) School of Medicine for Women.  
The London School of Tropical Medicine (in Tropical Medicine only).

The Lister Institute of Preventive Medicine (for Research in Hygiene and Pathology).  
 The Royal Army Medical College (for Officers of the Royal Army Medical Corps).  
 The Royal Dental Hospital and London School of Dental Surgery (in Dentistry only).  
 The Naval Medical School of the Royal Naval College, Greenwich (for Officers of the Royal Naval Medical Corps).  
 The National Dental Hospital and College (in Dentistry only).

In the Faculty of Science:

Imperial College of Science and Technology.  
 Royal Holloway College.  
 Bedford College for Women.  
 East London College.  
 South-Eastern Agricultural College, Wye (in Agriculture only).

In the Faculty of Engineering:

Imperial College of Science and Technology.  
 East London College.

In the Faculty of Economics and Political Science:

London School of Economics and Political Science.

III.—OTHER INSTITUTIONS (*with Recognized Teachers*).

Battersea Polytechnic.	St. John's College, Battersea.
Birkbeck College.	St. Mark's College, Chelsea.
City of London College.	Royal Academy of Music.
Finsbury Technical College.	Royal College of Music.
Jews' College.	Trinity College of Music.
Northampton Polytechnic Institute.	Guildford School of Music.
Northern Polytechnic Institute.	Bethlem Royal Hospital.
Royal Veterinary College.	Brompton Hospital for Consumption and Diseases of the Chest.
Sir John Cass Technical Institute.	Hospital for Sick Children.
South-Western Polytechnic Institute.	National Hospital for the Paralyzed and Epileptic.
West Ham Municipal Technical Institute.	Royal London Ophthalmic Hospital.
Woolwich Polytechnic.	School of Pharmacy of the Pharmaceutical Society of Great Britain.
Maria Grey Training College.	
St. Mary's College.	
Borough Road College, Isleworth.	

AFFILIATED INSTITUTIONS.

The teaching of the University is organized under three categories: (1) That conducted by the University itself; (2) that conducted by the several "Schools of the University"; (3) that conducted at the other Institutions at which there are "Recognized Teachers of the University."

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE, Gower St., W.C. (1826.)

*Terms* : Three a year.

*Students* : 20,218 (1916-19).

*Budget* : The College estimates are approved annually by the University Senate. The estimates for 1918-19 provide for an expenditure of £65,730.

OFFICERS.

*Chairman*.—The Rt. Hon. Lord Reay, K.T.  
*Vice-Chairman*.—J. Bourne Benson, B.A., LL.D.  
*Treasurer*.—F. V. Schuster, B.A.  
*Acting Treasurer*.—H. Keene.  
*Provost*.—Sir Gregory Foster, B.A., Ph.D.  
*Secretary*.—Walter W. Seton, M.A., D.Litt.  
*Librarian*.—R. W. Chambers, M.A., D.Litt.  
*Tutor to Women Students*.—Winifred Smith (Miss), B.Sc.

## PROFESSORS.

FACULTY OF ARTS,  
INCLUDING ARCHITECTURE AND  
FINE ART.

## Professors :

- E. A. Gardner, *Archeology*.  
A. E. Richardson, *Architecture*.  
S. D. Adshead                    "  
P. Geyl, *Dutch*.  
W. M. Flinders-Petrie, *Egyptology and Coptic*.  
W. P. Ker, *English*.  
H. Tonks, *Fine Arts*.  
J. H. Thomas, *Sculpture*.  
L. M. Brandin, *French and Romance Philology*.  
E. J. Garwood, *Geography (Physical)*.  
L. W. Lyde, *Geography (Economic)*.  
E. Priebisch, *German and Germanic Philology*.  
J. G. Robertson, *German*.  
J. Arthur Platt, *Greek*.  
H. Gollancz, *Hebrew*.  
F. C. Montague, *History*.  
A. F. Pollard                    "  
A. Cippico, *Italian*.  
H. E. Butler, *Latin*.  
L. N. G. Filon, *Mathematics (Applied)*.  
M. J. M. Hill, *Mathematics (Pure)*.  
G. D. Hicks, *Philosophy and Psychology*.  
C. Spearman                    "  
H. S. Foxwell, *Political Economy*.

## FACULTY OF LAWS.

## Professors :

- Sir J. Macdonell, *Comparative Law*.  
J. H. Morgan, *Constitutional Law*.  
A. F. Murison, *Jurisprudence*.  
(Vacant), *Roman Dutch Law*.

## FACULTY OF SCIENCE.

## Professors :

- F. W. Oliver, *Botany*.  
J. N. Collie, *Chemistry*.  
F. G. Donnan                    "  
K. Pearson, *Applied Statistics and Eugenics*.  
E. J. Garwood, *Geology*.  
A. J. Clark, *Pharmacology*.  
W. H. Bragg, *Physics*.  
J. P. Hill, *Zoology and Comparative Anatomy*.

## FACULTY OF ENGINEERING.

## Professors :

- E. G. Coker, *Civil and Mechanical Engineering*.  
J. A. Fleming, *Electrical Engineering*.  
E. R. Matthews, *Municipal Engineering*.  
H. R. Kenwood, *Hygiene and Public Health*.

FACULTY OF MEDICAL  
SCIENCES.

## Professors :

- G. Elliot Smith, *Anatomy*.  
H. R. Kenwood, *Hygiene and Public Health*.  
A. J. Clark, *Pharmacology*.  
E. H. Starling, *Physiology*.  
W. M. Bayliss                    "

## SCHOOL OF LIBRARIANSHIP.

Director—E. A. Baker.

## Assistants :

- A. Esdaile, *Bibliography*.  
W. R. B. Prideaux, *Cataloguing and Library Routine*.  
W. C. B. Sayers, *Classification*.  
H. W. Fovargue, *Public Library Law*.  
B. M. Headicar, *Library Organization*.  
R. W. Chambers, *Literary History*.  
E. A. Baker, *Literary History and Book Selection*.  
H. Jenkinson, *Paleography and Archives*.

## Readers :

- R. W. Chambers, *English*.  
M. T. Ormsby, *Surveying*.  
W. Perrett, *German*.  
M. Cary, *Ancient History*.  
N. H. Baynes, *History of the Roman Empire*.  
E. G. Gardner, *Italian*.  
G. H. J. Hurst, *English Law*.  
T. G. Hill, *Plant Physiology*.  
A. W. Porter, *Thermodynamics*.  
J. J. Guest, *Graphics and Structural Engineering*.  
D. Jones, *Phonetics*.  
F. W. Thomas, *Tibetan*.  
T. L. Wren, *Geometry*.

## Assistant Professors :

- H. P. Philpot, *Civil and Mechanical Engineering*.  
W. C. Clinton, *Electrical Engineering*.

## Lecturers :

- H. G. Spearing, *Archeology*.  
A. Stratton, *Architecture*.  
T. G. Pinches, *Assyriology*.  
Sir G. Foster, *English*.  
T. Borenius, *Fine Arts*.  
S. Mawson                    "  
A. T. Porter                    "  
A. P. Newton, *American and Colonial History*.  
Lt.-Col. G. P. A. Phillips, *Military Science*.  
F. W. Thomas, *Comparative Philology*.  
C. Read, *Psychology*.  
F. Aveling                    "  
J. C. Flugel                    "



**Lecturers—Continued :**

J. H. Helweg, *Danish*.  
I. C. Gröndahl, *Norwegian*.  
Im. Björkham, *Swedish*.  
H. Hirschfeld, *Semitic Epigraphy*.  
E. J. Salisbury, *Botany*.  
W. Smith (Miss) "  
M. C. Stopes, *Paleobotany*.  
E. N. Thomas (Miss), *Botany*.  
Irvine Masson, *Chemistry*.  
Oscar Berdy "

**Lecturers—Continued :**

P. Haas, *Plant Chemistry*.  
A. H. Barker, *Heating and Ventilating*.  
H. Deans, *Railway Engineering*.  
A. T. Walmisley, *Waterways, Harbours, and Docks*.  
A. G. R. Foulerton, *Hygiene and Public Health*.  
D. M. S. Watson, *Zoology and Comparative Anatomy*.

**Post-Graduate Courses.**—Facilities for Post-Graduate and Research Work are provided in all Departments.

**Libraries.**—The Libraries contain about 145,000 volumes and upwards of 21,000 pamphlets. *Librarian* : R. W. Chambers.

**Museums.**—The chief Museums in the College are: (1) Anatomy, (2) Egyptology, (3) Zoology and Comparative Anatomy. There is also the Flaxman Gallery and Flaxman Drawing Room containing sculptures and drawings by the sculptor, John Flaxman.

**KING'S COLLEGE, Strand, London, W.C. (1828.)**

*Terms* : Three a year.

*Students* : 1,400.

**OFFICIALS.**

*Principal.*—R. M. Burrows, D.Litt., Ph.D.

*Dean of Theological Dept.*—Rev. W. R. Matthews, M.A., B.D.

*Sub-Dean of Theological Dept.*—Rev. S. C. E. Legg, M.A.

*College Secretary.*—S. T. Shovelton, M.A.

**Degrees and Hoods.**—See University of London.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

W. C. F. Walters, *Greek*.  
S. A. F. White, *Mathematics*.  
J. W. Nicholson "  
Sir I. Gollancz, *English Language and Literature*.  
A. W. Pollard, *English Bibliography*.  
V. Spiers, *French*.  
J. Fitzmaurice-Kelly, *Spanish*.  
G. Young, Camoens, *Portuguese*.  
H. G. Atkins, *German*.  
Sir Bernard Pares, *Russian*.  
A. J. Toynbee, *Modern Greek*.  
R. M. Burrows, *Modern Greek History*.  
Rev. Canon G. N. Box, *Hebrew*.  
F. J. C. Hearnshaw, *Medieval and Modern History*.  
Rev. C. Jenkins, *Ecclesiastical History*.  
E. J. Urwick, *Political Economy*.  
Rev. W. R. Matthews, *Philosophy of Religion*.  
J. W. Adamson, *Theory and Practice of Education*.  
A. Wildon Carr, *Philosophy*.

**Assistant Professor :**

J. B. Dale, *Mathematics*.

**Readers and Lecturers :**

J. K. Fotheringham, *Ancient History*.  
B. E. R. Turner, *Greek*.  
C. M. Knight (Miss), *Greek*.

**Readers and Lecturers—Continued :**

Rev. H. J. White, *Paleography*.  
E. B. Hall, *Evening Classes*.  
A. W. Reed, *English Language and Literature*.  
M. L. Lee (Miss), *English Language and Literature*.  
K. W. Campbell (Mrs.), *English Language and Literature*.  
O. T. Williams, *English Language and Literature*.  
M. Day (Miss), *English Language and Literature*.  
I. C. Major-Stevenson (Mrs.), *English Language and Literature*.  
H. M. Margoliouth, *English Language and Literature*.  
P. G. Thomas, *English Philology* (Evening Department).  
H. Johnstone (Miss), *Medieval and Modern History*.  
J. K. Fotheringham, *Ancient History*.  
Sir S. Low, *Imperial and Colonial History*.  
A. P. Newton, *Imperial and Colonial*.  
A. Weiner, *Evening Classes*. [History].  
E. F. Churchill, *Evening Classes*.  
H. D. Oakeley (Miss), *Moral and Mental Philosophy*.  
R. W. Seton-Watson, *East European*.  
F. J. Kidson, *Elocution*. [History].  
J. Stefansson, *Icelandic*.

**Readers and Lecturers—Continued :**

- M. Williams (Miss), *French*.  
 C. D. Webb, *French*.  
 L. P. de Castelvechio (Miss), *Italian*.  
 M. Cimino-King (Mrs.), *Italian*.  
 J. M. Villasante, *Spanish*.  
 Jose Plà, *Spanish*.  
 E. S. Buchheim (Miss), *German*.  
 A. G. Haltenhoff, *German*.  
 A. Raffi, *Russian*.  
 D. Subotic, *Serbian*.  
 T. G. Masaryk, *Slavonic Literature and Sociology*.  
 G. C. Logio, *Bulbarian*.  
 R. W. Seton-Watson, *East European History*.  
 L. Wharton, *Polish*.  
 L. Oeconomos, *Modern Greek*.

**FACULTY OF LAWS.**

- H. J. H. Mackay.      W. H. Griffith.  
 W. N. Hibbert.      A. Page.  
                                 W. V. Ball.

**FACULTY OF SCIENCE.****Professors :**

- W. B. Bottomley, *Botany and Vegetable Biology*.  
 A. W. Crossley, *Chemistry*.  
 A. J. Allmand      "  
 S. A. F. White, *Mathematics*.  
 J. W. Nicholson      "  
 O. W. Richardson, *Physics*.  
 A. Dendy, *Zoology and Animal Biology*.  
 E. Barclay-Smith, *Anatomy, Descriptive and Surgical*.  
 W. E. Dixon, *Materia Medica and Pharmacology*.  
 W. D. Halliburton, *Physiology*.  
 W. J. R. Simpson, *Public Health and Bacteriology*.  
 R. T. Hewlett, *Public Health and Bacteriology*.

**Assistant Professors :**

- J. B. Dale, *Mathematics, Pure and Applied*.  
 D. Sommerville, *Public Health and Bacteriology*.

**Readers and Lecturers :**

- R. R. Gates, *Botany*.  
 L. E. Hinkel, *Chemistry*.  
 D. H. Clibbens      "  
 R. W. K. Edwards, *Mathematics*.  
 S. T. Shovelton      "  
 J. F. Tinto      "  
 J. Quinton      "  
 W. T. Gordon, *Geology*.

**Readers and Lecturers—Continued :**

- W. Wilson, *Physics*.  
 A. J. Philpott, *Physics*.  
 B. L. Worsnop      "  
 J. E. Bowen      "  
 W. Brown, *Psychology*.  
 D. L. Mackinnon (Miss), *Zoology*.  
 M. Tribe, (Miss), *Zoology*.  
 R. J. Gladstone, *Anatomy, Descriptive and Surgical*.  
 S. A. Boyd, *Applied Anatomy*.  
 F. S. Locke, *Physiology*.  
 O. Rosenheim, *Biochemistry*.  
 D. H. de Souza, *Physiology*.  
 C. da Fano, *Histology*.  
 R. Charles, *Public Health*.  
 A. J. Malcolm, *School Hygiene*.  
 T. M. Legge, *Industrial Hygiene*.  
 F. E. Taylor, *Bacteriology*.  
 G. C. Low, *Parasitology and Medical Entomology*.  
 J. E. Barnard, *Microscopy*.  
 2 Assistant Lecturers, 6 Demonstrators,  
 4 Assistant Demonstrators.

**FACULTY OF ENGINEERING AND APPLIED SCIENCES.****Professors :**

- D. S. Capper, *Engineering*.  
 A. H. Jameson, *Civil Engineering*.  
 E. Wilson, *Electrical Engineering*.

**Lecturers :**

- O. S. Sinnatt, *Engineering*.  
 R. Wolfenden      "

**FACULTY OF THEOLOGY.****Professors :**

- Rev. G. H. Box, *Hebrew and the Exegesis of the Old Testament*.  
 Rev. H. J. White, *Exegesis of the New Testament*.  
 Rev. C. Jenkins, *Ecclesiastical History*.  
 Rev. W. R. Matthews, *Physiology of Religion*.  
 Rev. P. Dearmer, *Ecclesiastical Art*.  
 Rev. C. F. Rogers, *Pastoral and Liturgical Theology*.  
 E. J. S. Urwick, *Economics*.  
 W. J. R. Simpson, *Laws of Health and Disease in their Relation to the Ministerial Office*.

**Lecturers :**

- Rev. F. S. Marsh, *Exegesis of the New Testament*.  
 Rev. R. Hanson, *Evening Lecturer for Entrance Examination*.  
 F. J. Kidson, *Elocution*.

**Library.**—25,000 volumes. *Librarian :* F. W. Walton, M.A.

**Museums.**—King George the Third Museum of Mechanical Models and Philosophical Instruments, and Anatomy.

**NEW COLLEGE**, South Hampstead, London. (1696.)

*Terms* : Three a year.

*Students* : 50.

OFFICIALS.

*Principal*.—Rev. A. E. Garvie, M.A., D.D.

*Secretary*.—Rev. H. Staines, M.A., B.D.

PROFESSORS.

**FACULTY OF THEOLOGY.**

**Professors :**

Rev. A. E. Garvie, *Biblical and Historical Theology, and Apologetics.*

Rev. H. T. Andrews, *New Testament Exegesis, History and Criticism.*

Rev. W. A. Davies, *Old Testament Exegesis, History and Criticism.*

Rev. A. E. Garvie, *Homiletics and Pastoral Theology.*

Rev. H. H. Scullard, *Ecclesiastical History, Christian Ethics, and History of Religion.*

F. C. F. Hyde, *Elocution.*

**FACULTY OF ARTS.**

Arts Classes of New, Hackney, and Regent's Park Colleges meet, in combination, under the following:

**Professors :**

Rev. H. H. Scullard, *Psychology and Ethics.*

G. W. Kilner, *Classics and Mathematics.*

J. Johnston, *Logic and English.*

**ROYAL VETERINARY COLLEGE**, London, N.W. 1. (1791.)

Recognized as a Research Institute in Animal Pathology by the Board of Agriculture and Fisheries, from whom a grant is received.

*Terms* : Three a year.

*Students* : Average 150.

OFFICIALS.

*Principal*.—Sir John McFadyean, M.B., B.Sc., LL.D., M.R.C.V.S.

*Secretary*.—T. C. Wight.

**Degrees conferred.**—Degree or diploma granted students prepared for the professional examinations of the Royal College of Veterinary Surgeons, and for the Degree of Bachelor of Science (Veterinary) of the University of London.

PROFESSORS.

E. S. Shave, *Anatomy.*

J. T. Evans, *Biology.*

G. D. Lauder, *Chemistry.*

G. H. Woolridge, *Hygiene and Dietetics, Medicine and Parasitology.*

E. D. Reynolds, *Materia Medica and Pharmacy.*

Sir John McFadyean, *Pathology and Bacteriology.*

G. A. Buckmaster, *Physiology and Histology.*

J. Macqueen, *Surgery.*

1 Demonstrator.

*Senior Research Assistant.*—J. T. Edwards,

**Post-Graduate Courses** of eight weeks each, open only to qualified veterinary surgeons and medical men, in Veterinary Pathology and Bacteriology are held once or twice each year.

**HACKNEY COLLEGE FOUNDATION, REGISTERED**, 527, Finchley Road, Hampstead, London, N.W. 3. (1803.)

Has joint Professors with the New College, Hampstead, and is a Divinity School of the University of London.

*Terms* : Three a year.

*Students* : 20.

*Budget :*

Income ..	..	..	..	..	£2,820	19s.	0d.
Expenditure ..	..	..	..	..	£2,779	8s.	6d.

OFFICIAL.

*Principal.*—P. T. Forsyth, M.A., D.D.

**Degrees and Hoods.** As London University.

## PROFESSORS.

P. T. Forsyth, *Apologetics, Dogmatics, and Homiletics*.

Rev. H. H. Scullard, *Church History, History of Religions, and Christian Ethics*.

Rev. H. T. Andrews, *Hellenistic Greek, New Testament Introduction and Interpretation*.

Rev. W. A. Davies, *Hebrew, Old Testament History Introduction and Interpretation*.

3 Lecturers.

**Post-Graduate Courses in Theology.**

**Libraries.—**

College Library.

Principal Cave's Library. *Librarian* : A Senior Student elected annually.

**BIRKBECK COLLEGE**, Breams Buildings, Chancery Lane, E.C. 4. (1823.)

*Terms* : Three a year.

## OFFICIALS.

*Principal*.—George Sente, D.Sc., Ph.D., F.I.C.

*Secretary*.—H. Wells Eames.

## LECTURERS.

F. A. Wright, *Latin*.

F. H. Marshall, *Greek*.

J. H. Lobban, *English Literature*.

B. M. Daunt (Miss), *English Language*.

V. E. Kastner, *French Language and Literature*.

L. W. Stone (Miss), *French Romance Philology*.

J. Bithell, *German Language and Literature, Italian Language and Literature*.

J. Johnston, *Logic*.

W. H. Pringle, *Economics*.

A. Jones, *History*.

J. F. Unstead, *Geography*.

G. H. J. Hurst, *The British Constitution*.

E. H. Smart, *Mathematics*.

C. V. Coates, „

L. J. Mordell, *Mathematics*.

A. Griffiths, *Physics*.

D. Owen, „

B. W. Clack, „

H. R. Nettleton, „

G. Senter, *Chemistry*.

F. Barrow, „

S. Sugden, „

B. Thole, „

F. J. Thornycroft, *Chemistry*.

M. G. Barrett (Miss), *Chemistry*.

Dame Helen Gwynne-Vaughan, *Botany*.

F. Drabble, *Botany*.

J. R. Matthews, *Botany*.

J. Ramsbottom, „

H. W. Unthank, *Zoology*.

E. A. Spaul, „

J. W. Evans, *Geology*.

A. M. Davies, „

G. McD. Davies, „

G. H. J. Hurst, *Laws*.

B. L. A. O'Malley, *Laws*.

D. N. Pritt, *Laws*.

F. Barrett-Lennard, *Laws*.

W. Walker, *Matriculation (Eng., Maths., and Classics)*.

J. B. Harrold, *Accountancy and Book-keeping*.

**Post-Graduate Courses.**—Post-graduate work is carried on in most of the departments, and students undertake work for the higher degrees of the University of London in the Faculties of Arts and Science.

**Museums of Botany, Zoology, and Geology.**

**Libraries.**—A Reference Library containing about 5,000 volumes, and a Lending Library containing about 1,000 volumes. The books in both libraries belong almost exclusively to the Arts Faculty. The various departments of the Science Faculty have their own libraries, containing in all about 1,000 volumes. The Library is open daily for the use of students from 2 p.m. to 9 p.m. *Librarian* : Miss M. C. Hildyard, B.A.



**THE COLLEGE OF PRECEPTORS**, 2 and 3 Bloomsbury Square, W.C. 1. (1846.)

Membership is open, under conditions, to all persons engaged in education.

*Terms* : Two a year.

**OFFICIALS.**

*President of the Council*.—Sir Philip Magnus, Bart, M.P., F.C.P.

*Vice-Presidents*.—

R. F. Charles, M.A.; Prof. John Adams, M.A., LL.D., F.C.P.; and

J. F. P. Rawlinson, K.C., M.P.

*Dean*.—W. G. Rushbrook, LL.M.

*Treasurer*.—G. Armitage-Smith, M.A., D.Litt.

*Secretary*.—G. Chalmers.

*Assistant Secretary*.—C. R. Mardling.

**Degrees and Hoods**.—Fellowship (F.C.P.); Licentiate'ship (L.C.P.); Associateship (A.C.P.).

Holders of the College Diplomas are entitled to wear gowns and hoods as follows:

**Fellows**: The hood to be of black silk, with violet edging, and two bands of same colour, each an inch wide, parallel to the edging at a distance of an inch from each other and from the edging.

**Licentiate's**: The hood to be of black silk or stuff, with edging of violet silk, and a band of same colour an inch wide parallel to the edging at a distance of an inch from the edging.

**Associates**: The hood to be of black stuff, with edging of violet silk.

**Library**.—The Library, containing valuable works of reference, many standard works on the Theory and Practice of Education and on subjects of school instruction, and a collection of modern school text-books.

**BEDFORD COLLEGE FOR WOMEN**, Regent's Park, London, N.W. 1. (1849.)

*Terms* : Three a year.

*Students* : 576.

*Budget* : Total Expenditure, £57,247.

**OFFICIALS.**

*Principal*.—Miss Tuke, M.A.

*Dean of the Faculty of Arts*.—Prof. Caroline Spurgeon, Litt.D., D.-ès-L.

*Dean of the Faculty of Science*.—Miss C. A. Raisin, D.Sc.

**Degrees conferred**.—As the University of London.

**PROFESSORS.**

**Professors :**

P. Geyl, *Dutch*.

C. F. E. Spurgeon, *English Literature*.

G. Rudler, *French Literature*.

J. G. Robertson, *German*.

D. A. Slater, *Latin*.

H. Hilton, *Mathematics*.

**Readers :**

M. Cary, *Ancient History*.

H. Crompton, *Chemistry*.

J. F. Spencer, *Physical Chemistry*.

S. Melhuish (Miss), *Education*.

**Readers—Continued :**

P. G. Thomas, *English Language and Medieval Literature*.

H. V. Routh, *English Literature*.

J. Steppat, *German*.

J. M. MacGregor, *Greek*.

J. S. Edkins, *Physiology*.

B. Edgell (Miss), *Psychology*,

H. W. M. Tims, *Zoology*.

33 Lecturers and Assistant Lecturers,

14 Assistants and Demonstrators.

**Library**.—The Tate Library. *Librarian* : Miss J. A. Paterson.

**Post-Graduate Courses**.—The Pilcher Research Laboratory for research in Science is attached to the College, and facilities are provided for Post-Graduate Study in the following subjects: English Language and Literature, French Language and Literature, German, Italian, Latin, Mathematics, Botany, Chemistry, Geology, Physics, Physiology, Philosophy and Psychology, Zoology.

ST. JOHN'S HALL, Highbury, N. 5. (1863.)

Terms : Three a year.

Students : 57.

OFFICIAL.

Principal.—A. W. Greenup, D.D., Litt.D.

PROFESSORS.

Rev. A. W. Greenup, *Biblical Exegesis*.

Rev. H. Smith, *Philosophy*.

Rev. J. M. Harden, *Systematic Theology*.

Rev. Preb. W. H. Stone, *Homiletics*.

5 Lecturers.

Librarian : Harold Smith, D.D.

WESTFIELD COLLEGE, Hampstead, N.W. 3. (1882.)

Terms : Three a year.

Students : 89.

OFFICIALS.

Principal.—Miss B. S. Phillpotts, O.B.E., Litt.D., F.R.Hist.S.

Vice-Principal.—Miss A. W. Richardson, B.A.

Bursar.—Miss R. C. Black.

LECTURERS AND READERS.

C. A. J. Skeel (Miss), *History*.

C. E. Parker (Miss), *Classics*.

E. M. Almond (Miss) „

M. Alford (Miss) „

Rev. J. W. Coke Norris, *Classics*.

L. J. Whitby (Miss), *Mathematics*,

*Pure and Applied*.

M. Anderson Scott (Miss), *History*.

K. M. Warren (Miss), *English Language and Literature*.

B. M. Daunt (Miss), *English Language and Literature*.

Madame Turquet, *French*.

E. M. Delf (Miss), *Botany*.

Librarian : Miss C. E. Parker.

CITY AND GUILDS OF LONDON INSTITUTE, Head Office at Gresham College, London, E.C. (1878.)

OFFICIALS

Chairman of the Council.—The Right Hon. the Earl of Halsbury.

Chairman of the Executive Committee.—Sir Edward H. Buck, M.A., LL.B.

Treasurer.—L. B. Sebastian.

Honorary Secretaries.—Sir John Watney and P. M. Evans, M.A.

Secretary.—A. L. Soper.

Diploma.—A.C.G.I.

The operations of the Institute are divided broadly into four branches:

1. The City and Guilds (Engineering) College, Exhibition Road, S.W., forms the Engineering Section of the Imperial College of Science and Technology.

2. The City and Guilds Technical College, Finsbury, provides day courses of instruction in Engineering and Chemistry.

3. The City and Guilds South London Technical Art School, 122-4, Kennington Park Road, embraces departments of Modelling, Drawing and Painting, and House Decoration.

4. The object of the Institute's Department of Technology, Exhibition Road, S.W., is the registration and inspection of classes in Technology, Domestic Subjects, and in Manual Training, and the holding of annual examinations in the subjects taught in such classes throughout the country and in the Colonies.

PROFESSORS.

Professors :

(At the City and Guilds (Engineering)

College, Exhibition Road, S.W.)

W. E. Dalby, *Mechanical Engineering and Motive Power*.

Professors—Continued :

S. W. Dixon, *Civil Engineering and Surveying*.

T. Mather, *Electrical Engineering*.

A. R. Forsyth, *Mathematics*.

**Assistant Professors :**

W. Hewson.  
A. Cruickshank.  
G. W. O. Howe.  
H. Klugh.  
E. F. D. Witchell.  
S. P. Smith.  
J. W. Purser.  
11 Lecturers.

**Professors :**

(At the City and Guilds Technical College, Finsbury.)  
W. H. Eccles, *Applied Physics and Electrical Engineering*.  
A. J. Margetson, *Civil and Mechanical Engineering*.  
(Vacant), *Applied Chemistry*.  
8 Lecturers.

**BATTERSEA POLYTECHNIC**, Battersea Park Road, London, S.W. 11. (1891.)

*Terms* : Three a year.

*Students* : Evening and afternoon .. 1,700  
Full-time day courses .. 490

**OFFICIAL.**

*Principal*.—R. H. Pickard, D.Sc., F.R.S.

**PROFESSORS.**

W. E. M. Curnock, *Mechanical and Civil Engineering*.  
A. T. Dover, *Electrical Engineering*.  
F. M. Saxelby, *Mathematics*.  
S. Marsh, *Physics*.  
J. Wilson, *Chemistry*.

H. Bideleux (Miss), *Hygiene and Physiology*.  
A. H. Baxter, *Art*.  
M. E. Marsden (Miss), *Domestic Science*.  
H. D. Wetton, *Music*.

**Post-Graduate Courses.**—Post-Graduate Courses are held in the Polytechnic in certain special branches of Chemistry and Engineering, such as Chemical Engineering, Advanced Structural Design, and Internal Combustion Engines, with special relation to the Petrol Motor and its application to Aeronautical work.

**Library.**—The Library contains books on Engineering, Architecture, Science, Art, Music, Hygiene, Domestic Science, etc.—the number of books about 6,000.

**LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE**, Clare Market, Kingsway, W.C. 2. (1895.)

*Terms* : Three a year.

*Students* : (1918-19) 2,273.

*Budget* (Total receipts 1918-19): £24,758 6s. 6d.

**OFFICIALS.**

*Chairman, Court of Governors*.—Sir Arthur Steel-Maitland, Bart., M.P.

*Vice-Chairman, Court of Governors*.—The Hon. Sir John Cockburn, K.C.M.G., M.D.

*Director*.—Sir William H. Beveridge, K.C.B., M.A., B.C.L.

*Secretary*.—Mrs. Mair, D.B.E., M.A.

*Dean*.—Miss C. S. Mactaggart.

**Degrees conferred.**—As University of London.

**PROFESSORS.**

A. L. Bowley, *Mathematics and Statistics*.  
E. Cannan, *Economic Theory*.  
L. R. Dicksee, *Accounting and Business Methods*.  
H. S. Foxwell, *Banking and Currency*.  
A. Pearce Higgins, *International Law*.  
L. T. Hobhouse, *Sociology*.  
J. H. Morgan, *Constitutional Law*.

A. J. Sargent, *Geography and Commerce*.  
C. G. Seligman, *Ethnology*.  
E. J. Urwick, *Social Science and Administration*.  
Graham Wallas, *Political Science*.  
S. Webb, *History and Public Administration*.  
E. A. Westermarck, *Sociology*.  
12 Lecturers.

**Post-Graduate Courses.**—Post-Graduate Courses and research in all departments.

**Library.**—British Library of Political Science. *Librarian* : B. M. Headicar.

**CITY OF LONDON COLLEGE**, White Street and Roylemaker Street Moorfields.

*Terms* : Three a year.

*Students* : 2,200 evening students; 300 day students.

#### OFFICIALS.

*Principal*.—Sidney Humphries, B.A., LL.B. (Cantab.).

*Secretary and Registrar*.—David Savage, F.C.I.S.

#### LECTURERS.

G. Mairer, *Arithmetic*.  
J. F. Davis, *Banking and Finance*.  
H. A. Wesson, *Book-Keeping, Accountancy and Auditing*.  
G. T. Barton, *Book-Keeping, Accountancy and Auditing*.  
W. Fenton, *Bookkeeping*.  
H. S. Jardine, *Building Construction*.  
J. P. Larke                     "  
G. Mairer, *Business Organization and Routine*.  
A. W. Bain, *Chemistry*.  
G. Mairer, *Commercial Correspondence and Business Method*.  
B. Gehrke, *Dutch*.  
W. H. L. Jones, *Economics*.  
L. Aaronson, *Economics*.  
E. Minshall, *Elocution*.  
B. L. K. Henderson, *English*.  
G. O. E. Lydall (Miss), *English*.  
W. F. Spalding, *Foreign Exchange*.  
J. A. Perret, *French*.  
H. Saunier                     "  
C. S. Howells, *French and Mathematics*.  
P. Barber, *German*.  
R. S. Crump, *Greek and Latin*.  
A. N. Aynsley (Miss), *Gymnastics (Women)*.

C. Evans, *Insurance (Accident)*.  
J. Henderson, *Insurance (Fire)*.  
S. Preston                     "  
J. B. Eland, *Insurance (Marine)*.  
W. Wilkinson, *Italian*.  
S. Humphries, *Law*.  
W. G. Hawtin               "  
H. C. Bickmore           "  
R. Bryant, *Mathematics*.  
Mrs. Fitzhenry, *Pianoforte*.  
J. C. Mascarenhas, *Portuguese*.  
J. J. Taylor, *Quantity Surveying*.  
S. G. Stafford, *Russian*.  
Nandy Hoskins, *Sanitary Science*.  
J. A. Stocker, *Secretarial Practice and Duties*.  
E. E. Rayner, *Shorthand*.  
F. C. Perrins, *Shorthand (French)*.  
D. Bowman, *Spanish*.  
J. G. Marder, *Spanish*.  
A. E. Gayer, *Surveying and Levelling*.  
A. E. Garrett, *Textiles*.  
A. E. Morton, *Typewriting and Shorthand*.  
W. G. Brittain, *Typewriting and Short-*  
R. P. Morris, *Valuation* [hand.  
M. W. Tossell, *Writing*.

**Library**.—Students' Reference and General Library. *Librarian* : Frank Barnard.

**EAST LONDON COLLEGE**, Mile End Road, London, E. 1. (1907.)

*Terms* : Three a year.

*Students (Day)* : 500.

*Budget* : £32,000.

#### OFFICIALS.

*Chairman of College Council*.—Sir C. N. Dalton, K.C.M.G., C.B., D.C.L.

*Deputy Chairman of College Council*.—Arthur Warren Williams.

*Treasurer*.—E. H. Pooley, M.A., LL.B.

*Principal*.—J. L. S. Hatton, M.A.

*Pegistrar*.—E. J. Wignall.

*Librarian*.—Miss C. S. Murphy.

**Degrees and Hoods**. See University of London.

#### PROFESSORS.

J. L. S. Hatton, *Mathematics*.  
F. R. Earp, *Classics*.  
Sir S. Lee, *English*.  
M. Perry (Mrs.), *French*.  
F. Clarke, *Modern History*.  
C. H. Lees, *Physics*.  
J. R. Partington, *Chemistry*.

F. E. Fritch, *Botany*.  
E. H. Lamb, *Civil and Mechanical Engineering*.  
J. T. MacGregor Morris, *Electrical Engineering*.  
(Vacant), *Aeronautics*.  
29 Lecturers.

**Post-Graduate Courses** in English, French, Modern History, Mathematics, Physics, Chemistry, Botany, Engineering.



**NORTHAMPTON POLYTECHNIC INSTITUTE**, Clerkenwell, E.C.1. (1896.)

*Terms* : Three per year.

**OFFICIALS.**

*Principal*.—R. Mullineux Walmsley, D.Sc., F.R.S.E.  
*Librarian*.—F. Thornsby.

**Mechanical Engineering and Metal Trades Department.**

*Head of the Department*.—C. E. Larard.

*Chief Assistant*.—W. Longland.

6 Assistants, 6 Lecturers, 5 Instructors.

**Electrical Engineering and Applied Physics Department.**

*Head of the Department*.—R. M. Walmsley.

*Associate-Head of the Department*.—F. M. Denton.

19 Assistants, 7 Lecturers.

**Department of Technical Optics.**

*Hon. Head of the Department*.—F. J. Cheshire.

*Head of the Department*.—S. D. Chalmers.

2 Assistants, 3 Lecturers, 5 Instructors.

**Department of Technical Chemistry.**

*Head of the Department*.—S. Field.

2 Assistants, 2 Lecturers.

**Horological Department.**

*Director*.—T. D. Wright.

2 Instructors.

**Miscellaneous Trades.**

*Director*.—C. J. Rosenberg.

**Women's Trades and Domestic Economy Department.**

*Head of the Department*.—Miss A. M. Tuck.

7 Assistants.

**IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY**, South Kensington, London.  
(1907.)

The purposes of the Imperial College as set forth in its Royal Charter are:

To give the highest specialized instruction, and to promise the fullest equipment for the most advanced training and research in various branches of Science, especially in its application to industry.

*Terms* : Three a year.    *Students* : 900 undergraduates, 110 post graduates.

*Budget* : Expenditure from £90,000 to £100,000 annually.

*Chairman of Governing Body*.—The Most Hon. the Marquess of Crewe, K.G.

*Chairman of Executive Committee*.—The Rt. Hon. Sir Arthur Acland, Bt.

*Chairman of Delegacy*.—Sir Dugald Clerk, K.B.E.

**OFFICIALS.**

*Rector*.—Sir Alfred Keogh, G.C.B., G.C.V.O., C.H., LL.D.

*Secretary*.—Alexander Gow, M.A., B.Sc.

*Registrar*.—John Jones.

**Degrees and Hoods.—**

Diploma of Membership of the Imperial College (D.I.C.). Hood as the Oxford M.A., the side and shape of black silk or black stuff, partly lined with white watered silk to a depth of 6 inches, with an edging 1 inch in width, of royal purple velvet,  $\frac{1}{2}$  inch from the outer edge, and with a neck-band of black silk  $1\frac{1}{2}$  inches in width, lined with white watered silk, and edged with white watered silk  $\frac{1}{2}$  inch in width.

Diploma of Associateship, Royal College of Science (A.R.C.S.).

Diploma of Associateship, Royal School of Mining (A.R.S.M.).

Diploma of Associateship, City and Guilds Institute (A.C.G.I.).

Hoods as for the D.I.C., except that the black portion in the neck-band of the hood is replaced by coloured silk. A.R.C.S., white; A.R.S.M., old gold; A.C.G.I., red, as in the arms of the City of London.

**PROFESSORS.****Professors :**

J. B. Farmer, *Biology and Botany*.  
 H. M. Lefroy, *Entomology*.  
 V. H. Blackman, *Plant Physiology*.  
 P. Groom, *Woods and Fibres*.  
 E. W. MacBride, *Zoology*.  
 W. A. Bone, *Chemical Technology, Fuel, etc.*  
 J. W. Hinchley, *Chemical Engineering*.  
 H. B. Baker, *Inorganic Chemistry*.  
 J. F. Thorpe, *Organic Chemistry*.  
 J. C. Philip, *Physical Chemistry*.  
 S. M. Dixon, *Civil Engineering*.  
 T. Mather, *Electrical Engineering*.  
 W. E. Walley, *Mechanical Engineering*.  
 W. W. Watts, *Geology*.  
 C. G. Cullis, *Economic Mineralogy*.  
 A. R. Forsyth, *Mathematics*.  
 A. N. Whitehead, *Applied Mathematics*.  
 H. C. H. Carpenter, *Metallurgy*.  
 S. J. Truscott, *Mining*.  
 L. H. Cooke, *Surveying*.  
 W. W. Watts, *Mining Geology*.  
 F. J. Cheshire, *Optical Engineering and Applied Optics*.  
 A. E. Courady, *Optical Design*.  
 H. L. Callendar, *Physics*.

**Professors—Continued :**

Lord Rayleigh, *Physics*.  
 A. O. Rankine, *Physics*.  
 A. Fowler, *Astrophysics*.

**Assistant Professors :**

S. B. Schryver, *Biochemistry*.  
 J. W. Hinchley, *Chemical Engineering*.  
 (Vacant), *Chemistry*.  
 J. Purser, *Civil Engineering*.  
 G. W. O. Howe, *Electrical Engineering*.  
 W. Hewson, *Mechanical Engineering*.  
 E. F. D. Witchell, *Mechanical Engineering*.  
 A. Cruickshank, *Mechanical Engineering*.  
 A. R. Richardson, *Mathematics*.  
 P. T. Wrigley, "  
 H. Klugh, "  
 W. H. Merrett, *Metallurgy*.  
 E. O. Courtman, "  
 L. H. Cooke, *Mining*.  
 S. J. Truscott, *Mining*.  
 (Vacant), *Physics*.  
 A. Pollard, *Optical Engineering (Mechanical), and Instrument Design*.  
 20 Lecturers.

**Post-Graduate Courses.**—These are given in all the ordinary departments and sub-departments, and in addition in Railway, Structural, and Hydraulic Engineering; Surveying and Geology; Electrical Machinery and Transformers; Economics Botany-Biochemistry; Economic Entomology, etc.

**Museums.**—The Science Museum adjoins the buildings of the College; in addition each department has its own teaching collection or museum.

**Libraries.**—The Science Library of the Science Museum is situated within the Imperial College Buildings, and is available for the use of staff and students of the College.

In addition each department has its separate Technical Library.

**AFFILIATED INSTITUTIONS.**

The Royal College of Science, the Royal School of Mines, and the City and Guilds (Engineering) Colleges form integral parts of the Imperial College.

The Department of Metallurgy of the University of Sheffield is recognized as being in association with the Imperial College for the Advanced Metallurgy of Iron and Steel.

ST. BARTHOLOMEW'S HOSPITAL, London, E.C. (1123.)

Sessions : Three per year.

OFFICIALS.

Dean.—T. W. Shore, M.D., B.Sc.

Warden.—W. G. Ball, F.R.C.S.

Registrar.—W. E. Sargent, M.R.C.S., L.R.C.P.

LECTURERS.

Sir W. P. Herringham, *Clinical Medi-*  
H. H. Tooth, *Clinical Medicine*. [cine.  
A. E. Garrod " "  
James Calvert " "  
H. Morley Fletcher, *Clinical Medicine*.  
W. Langdon Brown, *Practical Medicine*.  
H. Thursfield " "  
Sir Anthony Bowlby, *Clinical Surgery*.  
D'Arcy Power " "  
H. J. Waring " "  
W. McAdam Eccles " "  
R. C. Bailey " "  
H. Wilson, *Practical Surgery*.  
W. Girling Ball, *Practical Surgery*.  
L. B. Rawling, *Operative Surgery*.  
C. Gordon Watson " "  
H. Wilson " "  
W. S. A. Griffith, *Midwifery and*  
*Diseases of Women*.  
H. Williamson, *Midwifery and Diseases*  
*of Women*. [Women.  
J. D. Barris, *Midwifery and Diseases of*  
M. Donaldson, *Practical Midwifery*.  
Prof. F. W. Andrewes, *Pathology*.  
M. H. Gordon, *Pathology*.  
A. E. Garrod, *Chemical Pathology*.  
R. L. M. Wallis " "  
C. M. Hinds Howell, *Morbid Anatomy*.  
A. E. Gow " "  
H. Blakeway " "  
J. E. H. Roberts " "  
A. E. Stansfeld, *Practical Pathology*.  
R. M. Vick " "  
R. G. Canti " "  
W. H. Jessop, *Ophthalmic Medicine and*  
*Surgery*.  
W. Holmes Spicer, *Ophthalmic Medi-*  
*cine and Surgery*.  
Ernest West, *Diseases of the Ear*.  
Sydney Scott " "  
W. D. Harmer, *Diseases of the Throat*  
*and Nose*.

F. A. Rose, *Diseases of the Throat and*  
*Nose*.  
C. MacMahon, *Speech Defects*.  
R. C. Elmslie, *Orthopedic Surgery*.  
H. G. Adamson, *Diseases of the Skin*.  
H. Morley Fletcher, *Diseases of*  
*Children*.  
H. Thursfield, *Diseases of Children*.  
E. P. Cumberbatch, *Medical Electricity*.  
H. Walsham, *X-Rays*.  
R. Armstrong-Jones, *Mental Diseases*  
*and Insanity*.  
R. C. Ackland, *Dental Surgery*.  
Harold Austen " "  
W. F. Cross, *Anesthetics*.  
H. E. G. Boyle " "  
F. J. Trewby " "  
R. A. Lyster, *Forensic Medicine*.  
A. Macphail, *Descriptive and Surgical*  
*Anatomy*. [Anatomy.  
E. G. Stanley, *Descriptive and Surgical*  
A. L. Moreton, *Descriptive and Surgical*  
*Anatomy*.  
R. A. Ramsay, *Descriptive and Sur-*  
*gical Anatomy*.  
Prof. F. A. Bainbridge, *General Anat-*  
*omy and Physiology*.  
J. Trevan, *General Anatomy and*  
*Physiology*.  
P. Hamill, *Materia Medica, Pharma-*  
*cology and Therapeutics*.  
J. Langford Moore, *Materia Medica,*  
*Pharmacology and Therapeutics*.  
T. W. Shore, *Biology and Comparative*  
*Anatomy*.  
W. A. Cunningham, *Biology and Com-*  
*parative Anatomy*.  
W. H. Hurlley, *Chemistry*.  
E. Cahen, *Chemistry*.  
F. Womack, *Physics*.  
F. Ll. Hopwood, *Physics*. [tary Law.  
R. A. Lyster, *Public Health and Sani-*

ST. THOMAS'S HOSPITAL MEDICAL SCHOOL, Albert Embankment, S.E. (1207)

OFFICIALS.

Dean.—Sir Cuthbert Wallace, K.C.M.G., C.B., F.R.C.S.

Sub-Dean.—C. R. Box, M.D., B.S., B.Sc.

Medical Secretary.—A. Elliot, M.A., M.D., M.R.C.P.

Medical Registrar.—E. Wordley, B.A., M.B., B.C.

Surgical Registrar.—K. H. McMillan.

Obstetric Registrar.—A. H. Richardson, M.A., M.B., B.C.

Ophthalmic Registrar.—P. G. Doyne, B.A., M.B., B.Ch., F.R.C.S.

Librarian.—Prof. F. G. Parsons, F.R.C.S.

## PROFESSORS.

**Consulting Physicians :**

J. Harley, M.D.  
 Sir Seymour J. Sharkley, M.A., M.D.  
 T. D. Acland, M.A., M.D.  
 H. P. Hawkins, C.B.E., M.A., M.D.  
 H. W. G. Mackenzie, M.A., M.D.  
 R. P. Smith, M.D.

**Consulting Obstetric Physician :**

H. Gervis, M.D., F.S.A.

**Consulting Surgeons :**

Sir George H. Makins, G.C.M.G., C.B.  
 W. H. Battle.  
 Sir Charles A. Ballance, K.C.M.G.  
 C.B., M.V.O., M.S.

**Consulting Ophthalmic Surgeon :**

J. B. Lawford.

**Consulting Dental Surgeon :**

C. E. Truman, M.A.

**Museum.**—*Curator* : Prof. S. G. Shattock, F.R.C.S.

**Consulting Anesthetist :**

Walter Tyrrell.

**Professors :**

F. G. Parsons, *Anatomy*.  
 L. S. Dudgeon, *Bacteriology*.

**Lecturers :**

J. H. Brinkworth, *Physics*.  
 H. R. Le Suer, *Chemistry*.  
 — Mennell, *Anesthetics*.  
 J. Mellanby, *Physiology*.  
 H. P. Newsholme, *Pathology*.  
 E. Smith, *Forensic Medicine*.  
 W. H. B. Stoddart, *Mental Diseases*.  
 W. J. Wooley, *Pharmacology*.  
 W. Rushton, *Biology*.  
 Also the Physicians and Surgeons of  
 the hospital.  
 11 Demonstrators.

**ROYAL COLLEGE OF SURGEONS OF ENGLAND**, Lincoln's Inn Fields, W.C.  
 (1462.)

## OFFICIALS.

*President*.—Sir George Henry Matims, G.C.M.G., C.B.

*Vice-Presidents*.—

Sir Anthony A. Bowlby, K.C.B., K.C.M.G., K.C.V.O.

Sir John Bland-Sutton.

*Secretary*.—S. Forrest Cowell, M.A.

*Director of Examinations*.—Frederick G. Hallett, O.B.E.

*Hunterian Professor*.—Arthur Keith, LL.D., F.R.S.

*Bradshaw Lecturer*.—Sir Charles A. Ballance, K.C.M.G., C.B., M.V.O.

**Degrees conferred**.—Fellow (F.R.C.S.); Member (M.R.C.S.); Licentiate in Dental Surgery (L.D.S.R.C.S.Eng.).

*Librarian* : Victor G. Plarr, M.A.

**Institutes and Museums.**—

*Conservator of Museum* : Arthur Keith, M.D., C.M., LL.D., F.R.S.

*Pathological Curator* : S. G. Shattock, F.R.S.

*Assistant Pathological Curator*.—C. F. Beadles, M.R.C.S.

*Physiological Curator* : R. H. Burne, M.A.

**GUY'S HOSPITAL MEDICAL SCHOOL**, London Bridge, S.E. (1724.)

*Sessions* : Three per year.

## OFFICIALS.

*Warden*.—L. Bromley, M.C.

*Dean*.—H. C. Cameron, M.D.

## LECTURERS.

W. Hale White, *Principles and Practice of Medicine*.

L. E. Shaw, *Principles and Practice of Medicine*.

J. Fawcett, *Principles and Practice of Medicine*.

A. P. Beddard, *Principles and Practice of Medicine*.

N. Mutch, *Practical Medicine*.

H. W. Barber ,, ,,

T. B. Heaton ,, ,,

Sir W. Arbuthnot Lane, Bart., *Principles and Practice of Surgery*.

L. A. Dunn, *Principles and Practice of Surgery*.

Sir Alfred Fripp, *Principles and Practice of Surgery*.

F. J. Steward, *Principles and Practice of Surgery*.

P. Turner, *Operative Surgery*.

E. C. Hughes ,, ,,

L. Bromley ,, ,,



LECTURERS—*Continued* :

A. H. Todd, <i>Practical Surgery</i> .	A. R. Thompson, <i>Diseases of the Genito-Urinary System</i> .
G. T. Mullally, <i>Practical Surgery</i> .	R. Wynne Rouw, <i>Dental Surgery</i> .
R. C. Ozanne       "       "	Maurice Craig, <i>Psychological Medicine</i> .
E. G. Schlesinger   "       "	A. P. Beddard, <i>Materia Medica and Therapeutics</i> .
G. Bellingham Smith, <i>Obstetrics and Gynecology</i> .	A. J. Clark, <i>Pharmacology</i> .
H. Chapple, <i>Obstetrics and Gynecology</i> .	J. H. Ryffel, <i>Forensic Medicine</i> .
A. J. McNair, <i>Practical Obstetrics</i> .	R. King Brown, <i>Hygiene and Public Health</i> .
✓P. P. Laidlaw, <i>Pathology</i> .	G. Rowell, <i>Anesthetics</i> .
G. W. Goodhart, <i>Morbid Histology</i> .	C. H. Fagge, <i>Anatomy</i> .
H. S. French, <i>Morbid Anatomy</i> .	R. P. Rowlands, <i>Anatomy</i> .
G. H. Hunt       "       "	L. Bromley       "       "
R. Davies-Colley, <i>Surgical Pathology</i> .	A. H. Todd       "       "
J. W. H. Eyre, <i>Bacteriology</i> .	G. T. Mullally   "       "
J. H. Ryffel, <i>Chemical Pathology</i> .	R. C. Ozanne     "       "
G. W. Nicholson, <i>Clinical Microscopy</i> .	E. G. Schlesinger   "       "
H. L. Eason, <i>Ophthalmology</i> .	M. S. Pembrey, <i>Physiology</i> .
W. M. Mollison, <i>Diseases of the Throat, Nose, and Ear</i> .	G. Marshall       "       "
T. B. Layton, <i>Diseases of the Throat, Nose, and Ear</i> .	T. Martin Lowry, <i>Chemistry</i> .
Sir E. Cooper Perry, <i>Diseases of the Skin</i> .	R. W. Merriman   "       "
A. F. Hertz, <i>Diseases of the Nervous System</i> .	H. Rogerson, <i>Chemistry</i> .
H. C. Cameron, <i>Diseases of Children</i> .	A. H. Fison, <i>Physics</i> .
	H. H. Abram       "       "
	T. J. Evans, <i>Biology</i> .
	T. Reed, <i>Biology</i> .

ST. GEORGE'S HOSPITAL MEDICAL SCHOOL, Hyde Park Corner, S.W. 1. (1733.)

*Terms* : Two a year.

*Students* : Average 25.

OFFICIALS.

*Acting-Dean of the Medical School*.—R. R. James, F.R.C.S.

*Hon. Treasurer*.—W. S. Fox, M.D.

LECTURERS.

C. Ogle, <i>Principles and Practice of Physic</i> .	I. Back, <i>Principles and Practice of Surgery</i> .
A. C. Latham, <i>Principles and Practice of Physic</i> .	G. F. Darwall-Smith, <i>Midwifery and Diseases of Women and Children</i> .
J. S. Collier, <i>Principles and Practice of Physic</i> .	E. C. Greenwood, <i>Vaccination</i> .
A. J. Jex-Blake, <i>Principles and Practice of Physic</i> .	J. C. Woods, <i>Insanity</i> .
C. W. Daniels, <i>Tropical Medicine</i> .	H. B. Grimsdale, <i>Ophthalmic Surgery</i> .
H. J. Pendlebury, <i>Principles and Practice of Surgery</i> .	W. S. Fox, <i>Diseases of the Skin</i> .
Sir Crisp English, <i>Principles and Practice of Surgery</i> .	H. S. Barwell, <i>Diseases of the Throat and Ear</i> .
W. F. Fedden, <i>Principles and Practice of Surgery</i> .	F. Morley, <i>Dental Surgery</i> .
	J. A. Torrens, <i>Practical Medicine</i> .
	C. H. S. Frankau, <i>Practical Surgery</i> .
	G. A. Ewart, <i>Operative Surgery</i> .
	4 Assistant Lecturers, 3 Assistant Teachers.

**Post-Graduate Courses**.—As arranged by the Post-Graduate Association.

**Libraries**.—There is a Reference Library for the use of students and staff. *Secretary and Librarian* : S. A. Williamson.

**Museums**.—

Pathological Museum.

Hunterian Society.

## (1) LONDON HOSPITAL MEDICAL COLLEGE. (1785.)

## (2) LONDON HOSPITAL DENTAL SCHOOL. (1911.)

A constituent school of the University of London in the Faculty of Medicine.

*Terms* : Two a year.

*Students* : 300-400.

## OFFICIALS.

*Chairman of College Board*.—W. D. Hoare.

*Dean*.—Prof. W. Wright, M.B., D.Sc., F.R.C.S.

*Secretary*.—E. J. Burdon.

## PROFESSORS.

## Professors :

W. Wright, *Anatomy*.

E. P. Cathcart, *Physiology*.

W. Bulloch, *Pathology and Bacteriology*.

## Lecturers :

W. J. Hadley, *Medicine*.

J. Parkinson, *Cardiology*.

T. Thompson, *Clinical Medicine*.

J. Hutchinson, *Surgery*.

R. Howard, *Surgery*.

H. Lett, *Operative Surgery*.

R. Howard, " "

R. Warren, *Clinical Surgery*.

R. Milne, " "

H. R. Andrews, *Midwifery and Diseases of Women*.

E. L. Holland, *Practical Obstetrics*.

R. J. Probyn-Williams, *Anesthetics*.

E. W. Clapham, *Anesthetics*.

A. S. Daly, " "

N. C. Rutherford, *Anatomy*.

A. J. Walton, " "

H. S. Souttar, " "

L. J. Austin, " "

I. Feldman, *Physiology*.

W. A. M. Smart, *Physiology*.

O. Leyton, *Pharmacology and Materia Medica : Practical Pharmacy*.

E. Mellanby, *Pharmacology and Materia Medica : Practical Pharmacy*.

F. A. Hocking, *Pharmacology and Materia Medica : Practical Pharmacy*.

P. Fildes, *Pathology*.

L. W. Rajchman, *Pathology*.

H. M. Turnbull, " "

Russell Howard, " "

P. N. Pantan, " "

H. L. Tidy, " "

P. Fildes, *Bacteriology*.

L. W. Rajchman, *Bacteriology*.

G. B. Bartlett, *Pathological Histology*.

W. W. Woods, " "

W. J. Hadley, *Morbid Anatomy*.

O. Leyton, " "

## Lecturers—Continued :

T. Thompson, *Morbid Anatomy*.

C. H. Miller, " "

F. J. Smith, *Forensic Medicine*.

R. Hutchinson, *General Therapeutics*.

T. H. Openshaw, *Orthopedic Surgery*.

F. Kidd, *Genito-Urinary Surgery*.

A. B. Roxburgh, *Ophthalmology*.

H. Tod, *Otology*.

F. F. Muecke, *Otology*.

H. Lambert Lack, *Laryngology*.

Norman Patterson, " "

J. H. Sequeira, *Dermatology*.

H. Chapman, *Dental Surgery*.

Sir F. M. Farmer, *Dental Surgery*.

G. Northeroft, " "

G. P. Pollitt, " "

E. Sprawson, " "

W. Thew, " "

R. Hutchinson, *Foods and Dietetics*.

J. K. Will, *Psychological Medicine*.

C. W. Daniels, *Tropical Medicine*.

S. Gilbert Scott, *Radiography and Radiotherapeutics*.

R. S. Woods, *Therapeutic Electricity*.

R. Hutchinson, *Diseases of Children*.

F. Warner, *Neuroses and Psychoses of Children*.

H. Candy, *Chemistry*.

A. H. Fison, *Physics*.

G. P. Mudge, *Biology*.

J. T. Cunningham, *Biology*.

Sir F. M. Farmer, *Dental Surgery and Pathology*.

H. Northeroft, *Operative Dental Surgery*.

W. Thew, *Dental Prosthesis*.

G. Paton Pollitt, *Operative Dental Prosthesis*.

H. Chapman, *Odonto-prosopic Orthopedics*.

E. Sprawson, *Dental Histology*.

O. Grünbaum, *Dental Materia Medica*.

H. Candy, *Dental Metallurgy*.

R. J. P. Williams, *Dental Anesthetics*.

**Library of Medical works in College.**

**Museums.**—Anatomical, Pathological, Materia Medica.

**Post-Graduate Courses.**—Surgery for F.R.C.S. Examination, etc. Revision Courses in Clinical Medicine, Surgery, and Obstetrics.

**QUEEN CHARLOTTE'S LYING-IN HOSPITAL AND MIDWIFERY TRAINING SCHOOL,** Marylebone Road, London, N.W. (1752.)

*Sessions :* All the year round.

*Students :* Six students and post-graduates at a time.

OFFICIAL.

*Secretary.*—A. Watts.

21 Honorary Medical Officers.

**ROYAL LONDON OPHTHALMIC HOSPITAL,** City Road, E.C. 1. (1804.)

*Secretary Superintendent.*—Robert J. Bland.

PROFESSORS.

**Physicians :**

James Taylor.  
Gordon M. Holmes.

**Surgeons :**

E. Treacher Collins.  
W. T. Holmes Spicer.  
Percy Flemming.

**Surgeons—Continued :**

J. H. Fisher.  
J. H. Parsons.  
Claud Worth.  
Malcom L. Hepburn.  
A. C. Hudson.  
4 Assistant Surgeons.

**CHARING CROSS HOSPITAL MEDICAL SCHOOL,** 62-65, Chandos Street, W.C. (1819.)

*Terms :* Three a year.

*Students :* 200.

OFFICIALS.

*Dean.*—W. J. Fenton, M.D., F.R.C.P.

*Vice-Dean.*—N. C. Lake, M.D., M.S., D.Sc., F.R.C.S.

*Secretary.*—Frank Noakes.

LECTURERS.

W. W. C. Topley, *General Pathology and Morbid Anatomy.*

A. B. Rosher, *Pathological Laboratory and Morbid Histology.*

H. B. Weir, *Special Pathology and Post-Mortems.*

G. Holmes, *Neuro-Pathology and Practical Medicine.*

G. S. Wilson, *Bacteriology and Clinical Pathology.*

W. S. Fenwick, *Surgical Pathology.*

C. Lockyer, *Gynecological Pathology.*

J. M. H. MacLeod, *Pathology of the*

D. Forsyth, *Therapeutics.* [Skin.]

H. F. Morley, *Toxicology.*

W. J. R. Simpson, *Hygiene and Public Health.*

Sir J. Galloway, *General Medicine.*

W. Hunter           "           "

W. T. Fenton       "           "

G. Holmes           "           "

W. C. Bosanquet, *Clinical Medicine.*

E. D. Macnamara, *Psychological Medicine.*

Sir P. Manson, *Tropical Diseases.*

Sir J. Cantlie           "           "

W. I. Bruce, *Electrical and X-Rays.*

W. A. Brend, *Medical Jurisprudence.*

Sir H. F. Waterhouse, *General Surgery.*

Sir H. F. Waterhouse, *Clinical Surgery.*

C. Gibbs, *Clinical Surgery.*

H. S. Clogg           "           "

P. Daniel, *Operative Surgery.*

N. C. Lake, *Surgical Anatomy.*

E. B. Waggett, *Nose, Throat, and Ear.*

(Vacant), *Orthopedic Surgery.*

B. E. Potter, *Anesthetics.*

T. W. Eden, *Systematic Midwifery.*

C. Lockyer, *Diseases of Women.*

C. Lockyer, *Practical Midwifery.*

J. F. Colyer, *Dental Surgery.*

6 Tutors, 3 Demonstrators.

**Post-Graduate Courses.**—Special Post-Graduate Courses are arranged three times a year.

**Institutes and Museums.**—

- (a) An Institute of Pathology for teaching and research, with a staff of five full-time workers. Recently established in connection with this Medical School.

(b) A Museum, containing upwards of 4,000 specimens, has been specially arranged for teaching purposes. It includes over 800 Gynecological specimens, the "Cuthbert Lockyer" collection.

**Library.**—A Library, containing about 4,000 volumes, is available for the use of the students.

# AFFILIATED INSTITUTIONS.

Royal Westminster Ophthalmic Hospital.

## UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL.

### OFFICIALS.

*Dean.*—G. Blacker.

*Vice-Dean.*—A. M. H. Gray.

*Acting Secretary.*—G. E. Adams.

### TEACHING STAFF.

T. R. Elliott, <i>Director Department of Medicine.</i>	H. Tilley, <i>Diseases of Ear, Nose, and Throat.</i>
J. W. McNee and F. M. R. Walshe, <i>Assistants.</i>	G. S. Hett, <i>Diseases of Ear, Nose, and Throat.</i>
Sir J. Rose Bradford, <i>Medicine.</i>	H. J. Relph, <i>Dentistry.</i>
S. Martin, <i>Medicine.</i>	H. J. Shirley, <i>Anesthetics.</i>
H. B. Shaw, "	A. B. Kingsford, "
F. J. Poynton, "	F. S. Rood, "
C. Bolton, "	H. L. Tasker, "
T. Lewis, "	R. W. A. Salmond, <i>Radiology.</i>
A. M. H. Gray, <i>Skin Diseases.</i>	H. R. Spencer, <i>Obstetrics.</i>
B. Hart, <i>Mental Diseases.</i> [ <i>Surgery.</i> ]	G. Blacker, <i>Obstetrics.</i>
C. C. Choyce, <i>Director Department of Pathology.</i>	A. E. Boycott, <i>Director Department of Pathology.</i>
E. K. Martin and F. J. F. Barrington, <i>Assistants.</i>	T. W. P. Lawrence, <i>Morbid Anatomy.</i>
R. Johnson, <i>Surgery.</i>	F. H. Teale, <i>Bacteriology.</i>
W. Trotter, "	D. Embleton, "
G. Williams, "	G. W. Goodhart, <i>Clinical Pathology.</i>
P. Flemming, <i>Ophthalmic Surgery.</i>	F. J. Poynton, <i>Forensic Medicine.</i>
J. H. Parsons, "	H. R. Kenwood, <i>Hygiene and Public Health.</i>

## UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL.

Great Portland and Devonshire Streets, W. (1861.)

*Sessions:* Two per year.

### OFFICIALS.

*Dean.*—Sidney Spokes, J.P., M.R.C.S., L.D.S.

*Clerk.*—M. P. Collings.

### LECTURERS.

J. W. Pare, <i>Dental Anatomy and Physiology.</i>	S. Holloway Olver, <i>Dental Mechanic.</i>
H. J. Relph, <i>Dental Surgery and Pathology.</i>	R. E. Slade, <i>Dental Metallurgy.</i>
A. E. Relph, <i>Operative Dental Surgery.</i>	F. R. Smyth, <i>Dental Materia Medica.</i>
	Kenneth W. Goadby, <i>Bacteriology of the Mouth.</i>

4 Demonstrators.

**KING'S COLLEGE HOSPITAL MEDICAL SCHOOL** (University of London), Denmark Hill, London, S.E. 5. (1830.)

*Terms:* Three per year.

*Students:* 160.

### OFFICIALS.

*Chancellor.*—(Of University of London.)

*Vice-Chancellor.*—(Of University of London.)

*Dean.*—H. Willoughby Lyle, M.D., B.S., F.R.C.S.

*Secretary.*—Sidney C. Ranner, M.A.



**Degrees and Hoods.**—Medical Degrees of Universities of Cambridge, London, and Oxford.

PROFESSORS.

**Professors :**

R. H. Steen, *Psychological Medicine*.  
G. F. Still, *Diseases of Children*.  
Sir St. Clair Thomson, *Laryngology and Rhinology*.  
A. Whitfield, *Dermatology*.  
W. J. R. Simpson, *Hygiene*.

**Lecturers :**

C. W. M. Hope, *Laryngology and Rhinology*. [*Medicine*.]  
N. Dalton, *Principles and Practice of*  
R. Crawford, *Clinical Medicine*.  
W. A. Turner, *Nervous Diseases*.  
S. A. K. Wilson, "  
F. W. Tunnicliffe, *Clinical Medicine and Therapeutics*.  
J. C. Briscoe, *Clinical Medicine*.  
H. W. Wiltshire, "  
A. C. D. Firth, "  
R. S. Frew, *Diseases of Children*.  
F. F. Burghard, *Principles and Practice of Surgery*.

**Lecturers—Continued :**

Sir G. L. Cheate, *Principles and Practice of Surgery*.  
T. P. Legg, *Clinical Surgery*.  
A. Edmunds, "  
J. W. T. Walker, *Urology*.  
J. Everidge, "  
H. A. T. Fairbank, *Orthopedic Surgery*.  
C. J. Marshall, *Surgical Applied Anatomy and Orthopedic Surgery*.  
H. J. M. Playfair, *Obstetric and Gynecological Surgery*. [*Surgery*.]  
W. Gilliatt, *Obstetric and Gynecological*  
L. V. Cargill, *Ophthalmic Surgery*.  
H. W. Lyle, "  
A. H. Cheate, *Aural Surgery*.  
G. J. Jenkins, "  
C. E. Wallis, *Dental Surgery*.  
J. F. W. Silk, *Anesthetics*.  
C. Hughes, "  
E. Playfair, "  
W. d'Este Emery, *Pathology*.

**Post-Graduate Courses.**—Arranged in connection with the Fellowship of Medicine.

**Museum.**—Pathological Museum.

**Library.**—Medical School Library, about 5,000 volumes. *Librarian* : S. C. Ranner, M.A.

**WESTMINSTER HOSPITAL MEDICAL SCHOOL, Westminster, S.W. 1. (1834.)**

*Sessions* : Two per year.

OFFICIALS.

*Dean*.—D. de Souza.

*Sub-Dean*.—B. Hicks.

*Secretary*.—S. M. Quennell.

LECTURERS.

Spencer, *Clinical Surgery*.  
Tubby, "  
Turner, "  
Robinson, *Clinical Gynecology*.  
Sir J. P. Stewart, *Medicine*.  
C. Jones, *Medicine*.  
D. de Souza, "  
K. Wilson, "  
H. Carlill, "  
H. J. Norman, *Medicine (Mental Diseases)*.  
S. E. Dore, *Medicine (Skin Diseases)*.  
Lt.-Col. Pratt, *Medicine (Tropical Diseases)*.  
G. B. James, *Ophthalmic Surgery*.  
R. Carling, *Orthopedic Surgery*.  
De Santi, *Surgery of the Throat, Nose, and Ear*.

Glassington, *Dental Surgery*.  
V. Orr, *Anesthetics*.  
A. Evans, *Operative Surgery*.  
R. Carling, *Surgical Pathology*.  
R. Farrant, *Surgical Anatomy*.  
G. H. D. Robinson, *Midwifery and Diseases of Women*.  
S. Dodd, *Practical Midwifery*.  
J. A. B. Hicks, *General Pathology and Morbid Anatomy, Morbid Histology, Post-mortem Demonstrations, Medical Pathology*.  
J. M. Burnford, *Forsenic Medicine*.  
S. M. Copeman, *Public Health*.  
R. R. Elworthy, *Bacteriology*.  
H. W. Hake, *Chemistry*.  
Bosworth, *Physics*.  
S. Scales, *Microscopy*.

4 Demonstrators, 1 Assistant.

**Institute.**—Bland-Sutton Institute of Pathology. *Director* : C. H. Browning, M.D., Ch.B., D.P.H.

**THE MIDDLESEX HOSPITAL MEDICAL SCHOOL, Mortimer Street, W. 1. (1835.)**
*Sessions : Three per year.*
*Students : 250.*
**OFFICIAL.**
*Dean.*—A. E. Webb-Johnson, C.B.E., D.S.O., F.R.C.S.

**LECTURERS.**

W. E. Wynter, *Principles and Practice of Medicine.*  
A. F. Voelcker, *Principles and Practice of Medicine.*  
J. Murray, *Principles and Practice of Surgery.*  
T. H. Kellock, *Principles and Practice of Surgery.*  
C. E. Lakin, *Practical Medicine.*  
H. MacCormac, „ „  
E. A. Cockayne „ „  
G. E. S. Ward „ „  
C. H. Browning, *General Pathology and Bacteriology.*  
E. L. Kennaway, *Pathological Histology, Morbid Anatomy, Chemical and Clinical Pathology.*  
L. H. D. Thornton, *Pathological Histology, Morbid Anatomy, Chemical and Clinical Pathology.*  
Charles Porter, *Hygiene, Public Health, and Sanitary Law.*  
W. Sampson Handley, *Surgical Pathology.*  
A. E. Webb-Johnson, *Practical Surgery.*  
C. H. S. Webb, *Operative Surgery.*  
Comyns Berkeley, *Midwifery.*  
Victor Bonney, *Practical Midwifery.*  
A. M. Kellas, *Toxicology.*

James Chambers, *Psychiatry.*  
E. A. Cockayne, *Pharmacology and Therapeutics.*  
W. Pasteur, *Clinical Medicine.*  
W. E. Wynter „ „  
A. F. Voelcker „ „  
R. A. Young „ „  
Sir John Bland-Sutton, *Clinical Surgery.*  
J. Murray, *Clinical Surgery.* [gery.  
T. H. Kellock, *Clinical Surgery.*  
W. Sampson Handley, *Clinical Surgery.*  
Comyns Berkeley, *Clinical Gynecology.*  
J. J. Pringle, *Dermatology.*  
H. Campbell Thomson, *Neurology.*  
Arnold Lawson, *Ophthalmology.*  
Sommerville Hastings, *Laryngology and Otology.*  
H. Watson Turner, *Odontology.*  
Thomas Yeates, *Anatomy (Descriptive, Practical, and Regional).*  
Gordon Taylor, *Applied Anatomy.*  
J. Strickland Goodall, *Physiology (Systematics, Chemical, and Practical), Biology, Histology, and Practical Histology.*  
A. M. Kellas, *Chemistry, (Inorganic, Organic, and Practical).*  
Sidney Russ, *Physics (Theoretical and Practical).*

**ST. MARY'S HOSPITAL MEDICAL SCHOOL, Paddington. (1852.)**
*Terms : Two a year.*
*Students : 180.*
**OFFICIALS.**
*Dean.*—Sir John Broadbent, Bart., M.A., M.D., F.R.C.P.

*Secretary.*—B. E. Matthews, B.A.

**PROFESSORS.**
**Professors :**

J. E. Frazer, *Anatomy.*  
Sir Almroth Wright, *Experimental Pathology.*

**Reader :**

H. E. Roaf, *Physiology.*

**Lecturers :**

W. Harris, *Clinical Medicine.*  
J. E. Lane, *Clinical Surgery.*  
W. Harris, *(Neurology), Medicine.*  
Sir John Broadbent, *Medicine.*  
W. H. Willcox „ „  
V. W. Low, *Surgery.*  
W. H. Clayton-Greene, *Surgery.*  
D. C. L. Fitzwilliams, *Practical and Operative Surgery.*

**Lecturers—Continued :**

V. Z. Cope, *Practical and Operative Surgery.*  
B. H. Spilsbury, *Pathology.*  
E. H. Kettle „ „  
J. Freeman, *Bacteriology.*  
A. Fleming „ „  
W. H. Willcox, *Chemical Pathology.*  
T. G. Stevens, *Midwifery and Gynecology.*  
F. S. Langmead, *Pharmacology and Therapeutics.*  
W. H. Willcox, *Forensic Medicine.*  
J. E. Frazer, *Anatomy.*  
H. E. Roaf, *Physiology and Histology.*  
W. S. Denham, *Chemistry.*  
W. H. Leigh-Sharpe, *Biology.*

**Lecturers—Continued :**

W. H. White, *Physics*.  
J. A. H. Brincker, *Hygiene and Public*  
R. H. Cole, *Mental Diseases*. [*Health*.  
L. J. Paton, *Diseases of the Eye*.  
F. A. Juler         "         "  
K. A. Lees, *Diseases of the Ear, Throat,*  
                  *and Nose*.

**Lecturers—Continued :**

C. I. Graham, *Diseases of the Ear,*  
                  *Throat, and Nose*.  
E. G. Little, *Diseases of the Skin*.  
W. H. Dolamore, *Dental Surgery*.  
J. H. Chaldecott, *Anesthetics*.  
G. R. Phillips         "  
G. H. Orton, *X-Ray Department*.

8 Tutors and Demonstrators.

**Post-Graduate Courses** for Primary and Final Fellowship examination of the Royal College of Surgeons.

**Museum.**—Pathological Museum.

**Library.**—Library of Medical Works, about 3,000 volumes. *Hon. Librarian :* W. H. Clayton-Greene. *Librarian :* F. Nanfan.

**THE HOSPITAL FOR SICK CHILDREN**, Great Ormond Street, W.C. 1. (1852.)

*Terms :* Three per year.

*Students :* 200.

**OFFICIALS.**

*President.*—H.R.H. The Prince of Wales.

*Dean.*—G. E. Waugh, F.R.C.S.

*Secretary.*—E. S. Darmady.

**MEDICAL OFFICERS.**

A. F. Voeleker, *Physician*.  
W. S. Colman         "  
G. F. Still         "  
F. J. Poynton         "  
Robert Hutchison, *Physician to Out-*  
                  *Patients*.  
J. H. Thursfield, *Physician to Out-*  
                  *Patients*.  
Theodor Thompson, *Physician to Out-*  
                  *Patients*.  
F. Langmead, *Physician to Out-Patients*.  
Robert S. Frew, *Physician to Out-*  
                  *Patients*.  
George E. Waugh, *Surgeon*.  
H. A. T. Fairbank, *Surgeon*.  
O. L. Addison, *Surgeon to Out-Patients*.

H. Tyrrell Gray, *Surgeon to Out-*  
                  *Patients*.  
L. E. Barrington-Ward, *Surgeon to*  
                  *Out-Patients*.  
W. H. McMullen, *Ophthalmic Surgeon*.  
W. Ironside Bruce, *Radiographer*.  
George E. Waugh, *Surgeon to the*  
                  *Aural Department*.  
A. T. Pitts, *Dental Surgeon*.  
D. Nabarro, *Bacteriologist*.  
T. Graham Scott, *Anesthetist*.  
H. S. Sington         "  
C. J. Loosely         "  
H. B. Wilson         "  
George R. Pirie, *Pathologist*.  
J. Wicliffe Peck, *Pharmacist*.

**Post-Graduate Courses.**—Advanced courses held at regular intervals throughout the year.

**Museum.**—Pathological Museum richly endowed with specimens illustrative of diseases in children. *Curator :* J. H. Thursfield, M.D.

**NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC**, Queen Square, London, W.C. (1859.)

*Dean.*—C. M. Hinds Howell, M.D., F.R.C.P.

*Professors.*—Medical and Surgical Staff of the Hospital.

**Post-Graduate Courses.**—These are given about three times yearly.

**LONDON (ROYAL FREE HOSPITAL) SCHOOL OF MEDICINE FOR WOMEN**, Hunter Street, Brunswick Square, London, W.C. (1874.)

*Terms :* Three a year.

*Students :* 496.

**OFFICIALS.**

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*Honorary Secretary.*—Miss M. Thorne, O.B.E., M.D., F.R.C.S.I.

*Warden and Secretary.*—Miss L. M. Brooks.

*Assistant Secretary.*—Miss D. M. Baines.

*Registrar.*—Miss E. M. Jukes, B.A.

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J. W. Carr, *Principles and Practice of Medicine.*

A. G. Phear, *Clinical Medicine.*

W. P. S. Branson, *Clinical Medicine.*

P. W. Saunders                   "                   "

L. B. Aldrich-Blake (Miss), *Principles and Practice of Surgery, and Clinical*

J. Berry, *Clinical Surgery.* [Surgery.

J. Cunning                   "                   "

C. A. Pannett                   "                   "

C. A. Joll                   "                   "

C. A. Pannett, *Operative Surgery.*

E. Vaughan-Sawyer (Mrs.), *Gynecology.*

Lady Barrett, *Obstetrics and Operative Midwifery.*

P. W. Saunders, *Pathology.*

H. Mackay (Miss)                   "

A. G. R. Foulerton, *Hygiene and Public Health.*

M. L. Hepburn, *Diseases of the Eye.*

J. G. French, *Diseases of the Nose, Throat, and Ear.*

J. G. P. Phillips, *Mental Pathology.*

C. W. Daniels, *Tropical Medicine.*

M. D. Berry (Mrs.), *Anesthetics.*

B. Sprott (Mrs.)                   "

E. U. Williams, *Electro-Radiography.*

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W. Cullis (Miss), *Physiology.*

E. Hewer (Miss)                   "

M. Bond (Miss)                   "

F. Ransom, *Pharmacology.* [macy.

M. Buchanan (Miss), *Practical Phar-*

J. A. Gardner, *Chemistry.*

S. T. Widdows (Miss), *Chemistry.*

M. D. Waller (Miss), *Physics.*

G. P. Mudge, *Biology.*

N. Laycock (Miss)                   "

18 Demonstrators, 3 Tutors.

**Post-Graduate Courses.**—Post-Graduate Course of Instruction in the Treatment of Venereal Diseases, May and September. Post-Graduate Course in Operative Surgery, May.

**Library.**—Medical Library containing 4,500 volumes. *Librarian* : Margaret Reed.

**Museums.**

Materia Medica Museum.

Pathological Museum.

*Curator* : Margaret R. Abel.

**ROYAL DENTAL HOSPITAL OF LONDON, Leicester Square, W.C. 2.**

*Sessions* : Two per year.

## OFFICIALS.

*Dean.*—W. H. Dolamore, L.R.C.P., M.R.C.S., L.D.S.

*Treasurer.*—R. McKay.

## LECTURERS.

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D. Gabell, *Dental Mechanics.*

H. W. M. Tims, *Dental Anatomy.*

J. G. Turner, *Dental Surgery.*

F. Coleman, *Materia Medica.*

W. W. James, *Operative Dental Surgery.*

H. Hilliard, *Anesthetics.*

1 Tutor, 4 Clinical Assistants, 9 Demonstrators.

**THE LISTER INSTITUTE OF PREVENTIVE MEDICINE, Chelsea Garden, Chelsea Bridge Road, S.W. (1890.)**

## OFFICERS.

*Chairman of the Governing Body.*—Major-General Sir David Bruce, K.C.B., M.D., F.R.S.

*Director of the Scientific Staff.*—Dr. Charles J. Martin, M.B., D.Sc., F.R.S.

*Assistant Secretary.*—G. Cooper.

**Objects.**—(1) To investigate the means of preventing and curing the various diseases of men and animals, and to provide a place where researches may be carried on for this purpose.

(2) To provide instruction in methods of research in preventive medicine to medical officers of health, medical practitioners, veterinary surgeons, and advanced students.

(3) To prepare and to supply to those requiring them such special, protective, and curative materials, as have already been found, or shall in future be found, of value.

**Publications.**—A large number of scientific papers are published annually.



**THE ROYAL INSTITUTE OF PUBLIC HEALTH, 37, Russell Square, London, W.C.**  
(1886.)

OFFICIALS.

*Patron.*—His Majesty King George V.

*Vice-Patron.*—H.R.H. The Prince of Wales.

*Patroness.*—Her Majesty the Queen.

*President.*—The Right Hon. The Lord Leverhulme.

*Principal.*—Professor Sir William R. Smith, M.D., D.Sc., LL.D., F.R.S.Ed.

*Hon. Treasurer.*—John Blair MacAfee, LL.B.

*Hon. Secretaries.*—Professor E. D. Hope, M.D., D.Sc. T. N. Kelynaek, M.D., M.R.C.P.

The Institute was founded to provide the advantages of a powerful body for promoting the interests of those engaged in Official Public Health work at home and abroad, or in the Public Services, and also to aid the Theoretical and Practical investigation and study of all branches of Public Health Medicine. In pursuance of these objects the Council have established fully equipped Bacteriological, Serological, and Chemical Laboratories.

**LONDON SCHOOL OF TROPICAL MEDICINE, Endsleigh Gardens, N.W. 2. (1899.)**

The School arranges and equips Research Expeditions which have been carried out in Asia, East and West Africa, Central Africa, W. Indies, etc., etc.

*Sessions :* Three annually.

*Students :* 2,016 Post-Graduates, since foundation.

OFFICIALS.

*Dean.*—Sir R. Havelock Charles, G.C.V.O.

*Secretary.*—P. J. Michelli, Esq., C.M.G.

**Degrees conferred.**—A Certificate is granted by the School after examination, and the course is so arranged as to equip students for the Diploma of Tropical Medicine and Hygiene, Cambridge (D.T.M. & H.), and for the Diploma in the Diseases and Hygiene of the Tropics (D.T.M.Eng.).

LECTURERS.

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J. G. Thomson, *Director of Protozoology.*

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H. B. Newham, C.M.G., *Director of Tropical Pathology.*

**IMPERIAL CANCER RESEARCH FUND, EXAMINATION HALL,**  
8-11, Queen Square, Bloomsbury, W.C. 1. (1902.)

OFFICERS.

*President.*—The Duke of Bedford, K.G., K.B.E.

*Director.*—J. A. Murray, M.D.

*Secretary.*—F. G. Hallett, O.B.E.

# **NAVAL MEDICAL SCHOOL OF THE ROYAL NAVAL COLLEGE,** Greenwich. (1912.)

The accommodation includes all the necessary rooms and apparatus for the study and teaching of General and Naval Hygiene, Clinical Pathology, Tropical Medicine, and Micro-Biology. It is associated with the Seamen's Hospital, where wards are set apart for cases of tropical diseases under the care of the Professor of Pathology, and from which clinical lectures are given as requisite. The average number of students is 80 per annum. The school being only for officers of the Royal Navy, educational activities ceased with the outbreak of war, but will shortly be resumed.

## **STAFF.**

Surgeon-Capt. P. W. Bassett-Smith, *Clinical Pathology*.  
R. C. Frederick, *Hygiene*.

**ROYAL SANITARY INSTITUTE**, Parkes Museum, 90, Buckingham Palace Road, S.W. (1876.)

**Objects.**—To promote the advancement of Sanitary Science in all or any of its branches, and to diffuse knowledge relating thereto.

*Director and Secretary.*—E. White Wallis, F.S.S.

Parkes Museum contains collections of appliances relating to health and comfort. (Free to the public.)

**Library** of standard works on Sanitary Science, and a collection of Reports of Medical Officers of Health over the whole country.

**Publication.**—Journal (bi-monthly).

**ROYAL COLLEGE OF VETERINARY SURGEONS**, 10, Red Lion Square, W.C. 1.

## **OFFICIALS.**

*President.*—J. McKinna, F.R.C.V.S.

*Secretary and Registrar.*—F. Bullock, F.C.I.S.

**THE BRITISH MUSEUM**, Bloomsbury, W.C. 1. (1753.)

## **OFFICIALS.**

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*Assistants (1st Class).*—A. Hughes-Hughes, D. T. Baird Wood, H. Idris Bell, R. E. W. Flower.

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*Keeper of British and Medieval Antiquities and Ethnography.*—Sir Hercules Read, B.A.  
*Assistant Keeper of British and Medieval Antiquities and Ethnography.*—O. M. Dalton.  
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*Assistants (2nd Class).*—H. J. Braunholtz, A. B. Tonnochy.  
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*Assistants (1st Class).*—John Allan, G. C. Brooke.  
*Assistants (2nd Class).*—Harold Mattingly, E. S. G. Robinson.

**BRITISH MUSEUM (NATURAL HISTORY),** Cromwell Road, London, S.W. 7.  
 Branch of the British Museum.

Open daily, and on Sunday afternoons. Closed on Good Friday and Christmas Day.

*Budget (1919-20):* Estimate, £67,540.

#### ADMINISTRATIVE STAFF.

*Director.*—Sir Sidney F. Harmer, Sc.D., F.R.S.  
*Secretary.*—Charles E. Fagan, I.S.O.  
*Assistant (1st Class).*—Basil H. Soulsby.  
 3 Clerks.

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##### Entomology :

*Keeper.*—C. J. Gahan.  
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##### Geology :

*Keeper.*—A. S. Woodward.  
*Assistant Keeper.*—F. A. Bather.  
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##### Mineralogy :

*Keeper.*—G. T. Prior.  
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##### Botany :

*Keeper.*—A. B. Rendle.  
*Assistants (1st Class).*—A. Gepp, E. G. Baker.  
*Assistants (2nd Class).*—H. F. Wernham, J. Ramsbottom, O.B.E., A. J. Wilmott.  
 18 Temporary Assistants.

**Library** of 104,000 volumes. *Assistant (1st Class) :* B. B. Woodward.

**VICTORIA AND ALBERT MUSEUM, South Kensington, S.W. 7.**

The Museum is a museum of Applied Art, and was founded in 1852 with a view to the improvement of such manufactures and crafts as are associated with decorative design by the exhibition of specimens illustrative of the processes and taste which have governed the arts and crafts of past ages. In addition to the works of art exhibited in the main collections, the Museum also includes collections of objects and paintings, which are available for loan to Provincial Museums and Schools of Art; these form the department known as "Circulation." Under the control of the Board of Education. Open free every week-day, and part of every Sunday.

Eight departments in addition to the Indian Section (comprising objects illustrative of the arts and crafts of India, Burma, and the Far East other than China and Japan) and the Bethnal Green Branch Museum (see below): viz., Architecture and Sculpture; Ceramics (including Enamels and Glass); Engraving, Illustration, and Design; Library (see below); Metalwork; Paintings; Textiles; Woodwork; Circulation (see above).

**OFFICERS.**

*Director and Secretary.*—Sir Cecil Harcourt Smith, C.V.O., LL.D.

*Secretary to the Advisory Council.*—H. A. Kennedy.

*Secretary of Circulation Collections.*—J. Bailey.

*Keepers.*—

W. W. Watts.

Captain G. H. Palmer.

*Assistant Keepers.*—

T. A. Leffeldt.

Captain C. H. Wylde.

R. F. Martin.

T. C. Grove.

P. G. Trendell.

H. P. Mitchell.

A. F. Kendrick.

Lieut.-Col. E. F. Strange, C.B.E.

E. R. D. MacLagan, C.B.E.

C. S. Clarke.

A. Van de Put.

B. Rackham.

Captain M. Hardie.

21 Assistants, 2 Technical Assistants.

**Libraries.**—The Library proper comprises about 140,000 volumes principally dealing with the arts; and it also includes a collection of about 234,000 photographs intended for the use of students and designers. It is a Reference Library only. Admission by ticket; application for which should be made to the Director and Secretary.

In addition to the main Library, the Libraries bequeathed by the Rev. Alexander Dyce (1869) and Mr. John Forster (1876) are available for reference by readers. These together represent about 35,000 volumes. The Dyce Library is particularly rich in editions of classical authors and in English dramatic literature; the Forster Library consists mainly of works of English literature down to about the year 1876; 3,400 engravings and drawings are also included in these Libraries.

The Bethnal Green Branch Museum contains collections of artistic and scientific interest including an important group of paintings in water-colour and in oil, bequeathed to this Museum by Joshua Dixon.

**IMPERIAL INSTITUTE, South Kensington, S.W. 7.**

The National Memorial of the Jubilee of Queen Victoria.

**OFFICIALS.**

*Director.*—Wyndham R. Dunstan, C.M.G., LL.D., F.R.S.

*Assistant Secretary to the Director.*—A. J. Hedgeland, M.A.

The Institute comprises Exhibition Galleries containing collections illustrative of the raw materials obtainable from the various countries of the British Empire. A Scientific and Technical Department, equipped with extensive laboratories and sample rooms, for conducting investigations. A Technical Information Bureau. A Reference Library, Reading and Map Rooms.

**SCIENTIFIC AND TECHNICAL RESEARCH DEPARTMENT.**

*Superintendents.*—H. Brown, E. Goulding.

*Assistant Superintendents.*—T. Crook, R. G. Pelly, S. J. Johnstone.

*Principal Assistant.*—J. R. Furlong.

*Senior Technical Superintendent.*—S. E. Chandler.



**THE HORNIMAN MUSEUM AND LIBRARY**, Forest Hill, London, S.E. (1890.)  
Open daily (Tuesdays and Christmas Day excepted).

OFFICIALS.

*Curator*.—H. S. Harrison, D.Sc., F.R.A.I.

*Zoologist*.—H. N. Milligan, F.Z.S.

*Librarian*.—A. W. Pepper.

**Libraries**.—Free Public Reference Library of 5,500 volumes attached to the Museum.

**ROYAL OBSERVATORY**, Greenwich. (1675.)

Administrative expenses, £10,500 annually.

*Astronomer Royal*.—Sir F. W. Dyson, LL.D., F.R.S.

*Chief Assistants*.—J. Jackson, H. S. Jones.

*Assistants*.—H. P. Hollis, Andrew C. D. Crommelin, W. W. Bryant (Magnetic and Meteorological), C. R. Davidson, W. Bowyer.

*Junior Assistants*.—H. Furner (Higher Grade), W. M. Mitchell, P. J. Melotte, W. Sturns, R. T. Cullen, H. Acton, F. Jeffries, H. W. Newton.

*Clerical Assistant*.—D. J. R. Edney.

**THE GOVERNMENT CHEMIST.**

(Government Laboratory.)

13, Clement's Inn Passage, W.C. 2, and Custom House, Lower Thames Street, E.C. 3.

*Government Chemist*.—Professor Sir James Johnston Dobbie, M.A., D.Sc., LL.D., F.R.S.

*Deputy Government Chemist*.—J. Connah.

*Superintendent Analysts*.—G. Stubbs, E. Jones, J. H. Robbins, T. J. Cheater, C. Simmonds.

*Analysts (1st Class)*.—D. A. Gracey, J. F. Halpin, J. Fox, R. Rodgers, J. Holmes, A. More, T. H. Bowles, P. J. Sageman, W. Williamson.

*Analysts (2nd Class)*.—A. E. Middleton, G. F. Sheppard, J. Carmichael, A. G. Francis, F. G. H. Tate, A. H. Gauge, F. S. Aumonier, T. W. Harrison, F. S. Thurston, J. R. Nicholls, C. D. Barber, C. A. Adams, J. E. Byles, F. R. Ennos, J. Kirk, F. B. Burls.

**METEOROLOGICAL OFFICE**, Air Ministry, Kingsway, W.C. 2.

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*Director of Meteorological Office and Chairman of Committee*.—Sir Napier Shaw, LL.D., Sc.D., F.R.S.

*Assistant Directors*.—Dr. C. Chree, F.R.S., Kew Observatory; R. G. K. Lempfert, C.B.E., M.A. (for Contributing Stations); Lieut.-Col. E. Gold, D.S.O., F.R.S., in charge of Forecasting.

**Head-Quarters, Air Ministry, Kingsway, W.C. 2.**

*Superintendent of Marine Division*.—Commr. L. A. Brooke-Smith.

*Superintendent of Forecasting*.—J. S. Dines.

*Superintendent of Air Stations*.—(Vacant.)

*Superintendent of Meteorological Services for the Army*.—Captain D. Brunt.

*Chief Clerk*.—H. L. B. Tarrant.

**Climatology and Instruments Divisions**, Exhibition Road, South Kensington, S.W. 7.

*Superintendent of Statistics*.—F. J. W. Whipple.

*Superintendent of Instruments*.—R. Corless.

*Secretary of Advisory Committee on Atmospheric Pollution*.—J. S. Owens.

*Chief Clerk*.—T. Duncan Bell.

**British Rainfall Organization**, 62, Camden Square, N.W. 1.

*Superintendent*.—M. de C. Salter.

Office in Edinburgh, 122, George Street.

*Superintendent.*—A. Watt.

#### Superintendents of Observatories.

Central (Kew) Observatory, Richmond: C. Chree.

Magnetic Observatory, Eskdalemuir: A. Crichton Mitchell.

Western Observatory, Valencia, Co. Kerry: L. H. G. Dines.

Aerological Observatory, Benson, Oxon.: W. H. Dines.

North Sea Observatory, Aberdeen: C. Niven.

#### H.M. NAUTICAL ALMANAC OFFICE, 8, Lee Road, S.E. 3.

The first Nautical Almanac—that for 1767—was published by the Board of Longitude on the recommendation of Maskelyne, Astronomer Royal. The Almanac, which is now under the control of the Board of Admiralty, was much enlarged in 1834, and an abridged edition for navigators has been issued annually since 1896. The estimated annual expense of the Almanac is £3,546.

#### OFFICIALS.

*Superintendent.*—P. H. Cowell, D.Sc., F.R.S.

*Chief Assistant.*—B. F. Bawtree.

*Assistants.*—J. A. Sprigge, W. F. Doak, M.A., and T. C. Hudson, B.A.

#### IMPERIAL BUREAU OF ENTOMOLOGY.

Head Offices: British Museum (Natural History), Cromwell Road, S.W. 7.

Publication Offices: 88-89, Queen's Gate, S.W. 7.

Originally founded in 1909 by the Secretary of State for the Colonies, to deal with entomological problems in Tropical Africa under the title of the Entomological Research Committee (Tropical Africa); enlarged in 1913 so as to include the whole British Empire in its scope, and the title was then altered to Imperial Bureau of Entomology.

Its objects are: The collection and dissemination of information concerning insects either as affecting cultivated plants or as carriers of disease; the identification of any injurious insects submitted by Government Entomologists, Medical and Veterinary officers, etc., in all parts of the British Empire, and the rendering of any other practical assistance that may be possible to Government Entomologists for the carrying on of their work.

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*Assistant Director.*—Sheffield A. Neave, M.A., D.Sc.

*General Secretary.*—Capt. A. C. C. Parkinson (Colonial Office).

Hon. Managing Committee of 24 members excluding ex-officio members.

#### Publications.—

*Bulletin of Entomological Research* (quarterly).

*Review of Applied Entomology* (monthly), in two series: Series A (Agricultural) and Series B (Medical and Veterinary).

#### DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH,

16-18, Old Queen Street, Westminster, S.W. 1.

The Committee of the Privy Council for Scientific and Industrial Research was appointed by Order in Council dated July 28, 1915, to direct, subject to such conditions as the Treasury may from time to time prescribe, the application of any sums of money provided by Parliament for the organization and development of Scientific and Industrial Research. The order in Council also appointed an Advisory Council to whom all proposals for researches stand referred. By Charter dated November 23, 1916, the official members of the Committee of the Privy Council were created a Body Corporate under the name of "The Imperial Trust for the Encouragement of Scientific and Industrial Research," to hold and dispose of money and other property for the purposes of the Committee. On December 15, 1916, a separate Department, having its own Parliamentary Vote, was created for the service of the Committee.

*President of the Committee of the Privy Council.*—The Lord President of the Council (the Right Hon. Arthur J. Balfour, O.M., F.R.S., M.P.).

*Vice-Chairman of the Committee of Council.*—The President of the Board of Education (the Right Hon. Herbert A. L. Fisher, M.P.).

*Advisory Council.*—Sir William S. McCormick, LL.D. (Chairman); Sir George T. Beilby, F.R.S.; Sir Maurice Fitzmaurice, C.M.G., F.R.S.; Professor J. A. McClelland, F.R.S.; Sir Henry A. Miers, D.Sc., F.R.S.; The Hon. Sir Charles A. Parsons, K.C.B., F.R.S.; Sir J. J. Thomson, O.M., Pros.R.S.; Professor J. F. Thorpe, C.B.E., F.R.S.; Sir Richard Threlfall, K.B.E., F.R.S.

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*Superintendent of Laboratories.*—Professor Thomas Gray, D.Sc.

### GEOLOGICAL SURVEY OF GREAT BRITAIN AND MUSEUM OF PRACTICAL GEOLOGY, 28, Jermyn Street, London, S.W. 1.

(Scottish Branch of Geological Survey, 33, George Square, Edinburgh.)

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*Assistants to Director.*—J. S. Fleet, D.Sc., LL.D., F.R.S.; G. W. Lamplugh, F.R.S.

*Museum.*—*Curator and Librarian.*—J. A. Howe, B.Sc.

The Geological Survey and Museum was commenced in 1832; it was under the Science and Art Department from 1853 till 1900 when that Department became merged in the Board of Education. On November 1, 1919, the administrative control of the Survey and Museum was transferred to the Committee of the Privy Council for Scientific and Industrial Research.

The normal work of the Survey includes the preparation of geological maps and memoirs dealing with the general survey of the country and with various economic aspects of that survey.

The Museum of Practical Geology conserves and exhibits rocks, minerals, and fossils, which afford evidence for the published records of the survey or illustrate that survey. It is also a function of the Museum to exhibit economic minerals from all parts of the world.

#### GEOLOGICAL SURVEY.

*Director of Geological Survey and Museum of Practical Geology.*—Sir Aubrey Strahan, K.B.E., Sc.D., LL.D.

*Assistants to the Director.*—J. S. Fleet,\* G. W. Lamplugh.

*District Geologists.*—F. L. Kitchin (Paleontologist), W. Gibson, T. C. Cantrill, E. B. Bailey\*, R. G. Carruthers, M. Macgregor.\*

*Petrographer.*—H. H. Thomas.

*Geologists.*—C. B. Wedd, E. E. L. Dixon, E. M. Anderson,\* H. Dewey, R. L. Sherlock, B. Smith, G. W. Lee,\* C. E. N. Bromehead, C. H. Dinham,\* J. E. Richey,\* T. Eastwood, G. V. Wilson,\* R. W. Pocock, W. B. R. King, D. A. Wray, H. H. Read,\* T. H. Whitehead.

*Assistant Paleontologist.*—J. Pringle.

*Superintendents of Maps.*—R. Lunn,\* H. W. G. Williams.

1 Clerk, 1 Assistant Clerk.

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The Public Record Office contains the accumulated papers of the Courts of Law and Government Departments, which are of sufficient value to be preserved permanently, but are no longer in current use.

The most ancient official document in the Office is Domesday Book, which is exhibited in a museum (open 2 to 4 p.m. Mondays to Fridays inclusive), with other objects of interest.

The Public Search Rooms are open daily from 10 to 4.30 (Saturdays 10 to 2).

Students wishing to consult the less confidential documents may obtain readers' tickets on furnishing credentials. Foreign students must be introduced through the Foreign Office on the recommendation of the Diplomatic Representatives of their own country. To consult modern State Papers special permission is necessary from the Department of State concerned. For the inspection of legal records fees are charged.

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**Publications.**—Calendars of State Papers and other Records, Lists and Indexes, Annual Report.



**INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE,**  
Central Bureau, 34-35, Southampton Street, Strand, W.C. 2. (1900.)

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**Publications.**—Seventeen volumes in each annual issue, indexing the different branches of science.

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**Publications.**—

Philosophical Transactions, Series A and B.

Proceedings, Series A and B.

**SOCIETY OF ANTIQUARIES OF LONDON,** Burlington House, Piccadilly, W. 1.

A Society of Antiquaries was founded in London by Archbishop Parker in 1572. This body was dissolved by King James I., but appears to have continued informally for some time afterwards.

In 1707 Humphrey Wanley refounded this Society, and in 1717 it was formally reconstituted as the Society of Antiquaries of London, receiving its charter from King George II. in 1751.

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**Publications.**—

Archeologia.

Proceedings.

Reports of the Research Committee.

Vetusta Monumenta.

**THE LAW SOCIETY,** Law Society's Hall, Chancery Lane, W.C. 2. (1739.)

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The Society is a voluntary association of Solicitors for their mutual protection and benefit, regulated by charters and bye-laws. The Society also performs the duties of Registrar of Solicitors, has the custody of the Roll of Solicitors, conducts the examination of Articled Clerks, deals, subject to appeal, with all applications for admission and for renewal of practising certificates and regulates proceedings against unqualified persons.

**Publication.**—*Gazette* (monthly).

**ROYAL SOCIETY FOR THE ENCOURAGEMENT OF ARTS, MANUFACTURES, AND COMMERCE**, John Street, Adelphi, London, W.C. 2. (1754.)

**Objects of the Society.**—The Encouragement of the Arts, Manufactures, and Commerce of the Country, by bestowing rewards for such productions, inventions, or improvements as tend to the employment of the poor, to the increase of trade, and to the riches and honour of the kingdom; and for meritorious works in the various departments of the Fine Arts; for Discoveries, Inventions, and Improvements in Agriculture, Chemistry, Mechanics, Manufactures, and other useful arts; for the application of such natural and artificial products, whether of Home, Colonial, or Foreign growth and manufacture, as may appear likely to afford fresh objects of industry, and to increase the trade of the realm by extending the sphere of British commerce; and generally to assist in the advancement, development, and practical application of every department of science in connection with the Arts, Manufactures, and Commerce of this country. At the meetings, held weekly during the session, papers on subjects relating to inventions, improvements, discoveries, and other matters connected with the Arts, Manufactures, and Commerce of the country are read and discussed; at the meetings of the Indian and Colonial Sections subjects connected with our Indian Empire in the Colonies and dependencies are considered; lectures on technical subjects are delivered under the Cantor and other trusts.

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*Secretary (Indian and Colonial Sections).*—S. Digby, C.I.E.

*Accountant and Examinations Officer.*—J. H. Buchanan.

**Publication.**—Journal of the Royal Society of Arts (weekly).

**LINNEAN SOCIETY OF LONDON**, Burlington House, Piccadilly, W. 1. (1788.)**OFFICIALS.**

*President.*—Dr. A. Smith Woodward, F.R.S.

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**Library.**—40,000 volumes. *Acting Librarian* : W. S. Warton.

**Publications.**—

Transactions (since 1791).

Journals (since 1856.)

Proceedings (since 1838).

List of the Society (since 1789).

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Library of about 60,000 volumes.

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This Laboratory was founded by the late Dr. Ludwig Mond, D.Sc., F.R.S., as a Memorial of Davy and Faraday, for the purpose of promoting by original research the development and extension of Chemical and Physical Science.

**GEOLOGICAL SOCIETY OF LONDON**, Burlington House, Piccadilly, W. 1. (1807.)

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Membership, 1,250.

Library contains 35,000 books. *Librarian* : A. Greig. *Clerk* : M. St. J. Hope.

#### Publications.—

The Quarterly Journal (quarterly).

Geological Literature.

**ROYAL ASTRONOMICAL SOCIETY**, Burlington House, Piccadilly, W. 1. (1820.)

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**Publications.**—During past year Monthly Notices, vol. 79.

**BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE**, Burlington House, Piccadilly, W. 1. (1831.)

The objects of the Association are "To give a stronger impulse and a more systematic direction to scientific enquiry; to promote the intercourse of those who cultivate Science in different parts of the British Empire with one another and with foreign philosophers; to obtain more general attention for the objects of Science and the removal of any disadvantages of a public kind which impede its progress."

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The Annual Meeting, held in one of the great provincial centres of Britain or overseas, usually lasts for eight days.

**ROYAL ASIATIC SOCIETY, 74, Grosvenor Street, W. (1823.)**

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*President.*—The Right Hon. The Lord Reay, K.T., P.C., G.C.S.T., G.C.I.E., etc.  
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**Publications.**—

The Journal (published quarterly), 12s. per number, or 30s. Subscriptions in advance (free to members).  
 Oriental Translations Fund. Vols. I. to XXIV.  
 Asiatic Society Monographs. Vols. I. to XVI.  
 Prize Publications Fund. Vols. I. to IV.

**THE ZOOLOGICAL SOCIETY OF LONDON, Regent's Park, N.W. 8. (1826.)**

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**Publications.**—

Proceedings of the Zoological Society of London, 8 vols.  
 Transactions of the Zoological Society of London.  
 The Zoological Record (annual volume).

**ROYAL GEOGRAPHICAL SOCIETY, Lowther Lodge, Kensington Gore, S.W. 7.**  
 Founded 1830 for the Advancement of Geographical Science.

The object of the Society being the promotion and diffusion of geographical knowledge, it has always welcomed to its fellowship those anxious to further this object by their interest and support, as well as those able to take a more active part in the work of discovery and exploration.

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**THE ROYAL STATISTICAL SOCIETY, 9, Adelphi Terrace, Strand, W.C. 2. (1834.)**

**Objects.**—Its objects are the collection, discussion, and publication of facts dealing with the complex relations of modern Society in its social, economical, and political aspects, and especially facts which can be stated numerically and arranged in tables.

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The **Library** consists of about 50,000 volumes and is unique of its kind.

**Publications.**—Journal (annual).

**THE ROYAL NUMISMATIC SOCIETY, 22, Russell Square, W.C. (1836.)**

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**Publication.**—Numismatic Chronicle (quarterly).

**ROYAL AGRICULTURAL SOCIETY OF ENGLAND**, 16, Bedford Square, W.C. 1.

Founded 1838, as the "English Agricultural Society."

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Number of Governors and Members exceeds 11,000.

New Members elected at Monthly Meetings of Council.

**Library.**—This contains about 13,000 books and 2,000 pamphlets. It has recently been rearranged and a printed catalogue prepared.

**Examinations.**—In conjunction with the Highland and Agricultural Society of Scotland the Royal Agricultural Society of England has instituted Annual Examinations for the award of National Diplomas in the Science and Practice of Agriculture and of Dairying. The N.D.A. Examination is held in April, and that for the N.D.D. in September.

**Consulting Officers.**—The Society's Scientific Departments, for the use of Members, are under the control of Dr. J. Augustus Voelcker, M.A., F.I.C. (Consulting Chemist), Professor R. H. Biffen, F.R.S. (Botanist), and Mr. Cecil Warburton, M.A. (Zoologist). The Consulting Veterinary Surgeon is Professor Sir John McFadyean, Principal of the Royal Veterinary College. An annual grant is made to the College, in return for which the Society's Members are entitled to privileges in connection with veterinary matters.

By arrangement with the Dairy Research Institute, University College, Reading, the staff of the Institute undertake special researches in dairy problems for members of the Society.

**The Experimental Farm and Pot Culture Station**, at Woburn, Bedfordshire, is controlled by the Society. Here investigations are conducted with regard to crops, soils, feeding stuffs, and other agricultural matters. The Director of the Station is Dr. J. A. Voelcker.

**The 77th Annual Show of Live Stock, Machinery, Implements, etc.**, will be held at Darlington from June 29 to July 3, 1920.

**Trials of Agriculture Tractors and Ploughs** will be held in the autumn of 1920.

**Publications.**—

Annual Journal.

Text Book "Elements of Agriculture" (now in its 51st thousand), and numerous pamphlets.

Farm Account Books.

Diagrams of Insect Pests, etc.

**ROYAL BOTANIC SOCIETY OF LONDON**, Royal Botanic Gardens, Regent's Park. (1839.)**OFFICIALS.***President.*—The Marquis of Cambridge, G.C.B., G.C.V.O., C.M.G.*Secretary.*—H. W. Woodford, Royal Botanic Gardens, Regent's Park.

The Gardens of the Society in the Inner Circle, Regent's Park, 18 acres in extent, afford a good example of English landscape gardening, and having been laid out as a botanic garden, most of the trees and shrubs are of botanical or horticultural interest. It is a well-known centre of botanical study, possessing collections of tropical, economic, and medicinal plants; a students' garden with the plants arranged in beds according to their natural orders; a meteorological observatory, museum, and lecture-room where botanical lectures are given, and a botanical library. In the large conservatory and smaller greenhouses are many palms and ornamental plants. There is also a special hothouse with a large tank, where the Victoria water-lily—*Nelumbium*—and other water plants are successfully grown.

**Publication.**—Quarterly Summary.

**THE ROYAL MICROSCOPICAL SOCIETY**, 20, Hanover Square, W. 1. (1839.)

**Objects.**—Promotion of Microscopical and Biological Science by the communication, discussion, and publication of observations and discoveries relating to (1) Improvements in the construction and mode of application of the Microscope, and (2) Biological or other subjects of Microscopical Research.

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**Publications.**—The Journal of the Royal Microscopical Society (quarterly).

**THE CHEMICAL SOCIETY**, Burlington House, Piccadilly, W. 1. (1841.)

The object of the Society is the general advancement of Chemical Science by the discussion and publication of new discoveries and the interchange of valuable information respecting them.

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**Publications.—**

Memoirs and Proceedings, 1841-1847 (3 vols.).  
 Quarterly Journal, 1848-1862 (14 vols.).  
 Quarterly Journal, 1848-1862 (single parts).  
 Journal, 1862-1895.  
 Journal, 1862-1895 (single parts).  
 Journal, 1896-1914.  
 Journal, 1896-1914 (single parts).  
 Journal and Proceedings, 1915 (onwards).  
 Journal and Proceedings, 1915 (single parts).  
 Proceedings, 1885-1914.  
 Proceedings, 1885-1914 (single parts).  
 Annual Reports on the Progress of Chemistry, Vol. I. (1904) to present date.  
 Collective Index, Vol. I., 1841-1872.  
 Collective Index, Vol. II., 1873-1882.  
 Collective Index, Vol. III., 1883-1892.  
 Collective Index, Vol. IV., 1893-1902.  
 Collective Index, Vol. V., 1903-1912.  
 Jubilee Volume IX giving history of the Chemical Society from 1841-1891.  
 Memorial Lectures, 1893-1900 (out of print).  
 Memorial Lectures, Vol. II., 1901-1913.  
 Library Catalogue, 1886.  
 Library Catalogue, 1903.

**ROYAL ANTHROPOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,**  
 50, Great Russell Street, W.C. 1.

In 1843 the Ethnological Society was founded, in 1863 the Anthropological Society was founded; and in 1871 the two Societies were united as the Anthropological Institute. Title changed to Royal, 1907.

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*Assistant Secretary.*—E. W. Martindell, M.A.

**Publications.—**

Journal, Vol. XLIX., Parts 1 and 2. Vol. XLVIII., Part 2. Vol. XLIX., Part 1.

Man (a Journal of Anthropological Science), issued monthly.

**ROYAL ARCHEOLOGICAL INSTITUTE OF GREAT BRITAIN AND IRELAND,**  
 19, Bloomsbury Square, London, W.C. (1843.)

**Objects.**—The encouragement of intelligent research into British antiquities, and of vigilant care for their preservation.

*Patron.*—His Most Gracious Majesty the King.

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**Publication.**—The Archeological Journal (quarterly).



**RAY SOCIETY.** (1844.)

For the Publication of Works on Natural History.

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The object of the Society is to produce for its subscribers such works on Natural History, especially that of the British Isles, as from the expense of their illustration or other causes could not profitably be brought out by a publisher.

Amongst the distinguished naturalists who have contributed monographs to the Society may be mentioned Allman, Bowerbank, Carpenter, Darwin, Flower, Forbes, Günther, Huxley, the late President Lord Avebury, and the present President Professor M'Intosh.

**ROYAL METEOROLOGICAL SOCIETY,**

70, Victoria Street, Westminster, S.W. 1. (1850.)

OFFICERS.

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Walter William Bryant, B.A., F.R.A.S.; J. Somers Dines, M.A.

*Assistant Secretary.*—A. Hampton Brown, 70, Victoria St., Westminster, S.W. 1.

**Publications.**—

The Quarterly Journal.

Hints to Meteorological Observers.

Some Facts about the Weather.

Forms of Clouds.

**BRITISH ORNITHOLOGISTS' UNION,** c/o Chief Police Office, West India Dock, E. 14.  
(1858.)

**Objects.**—The advancement of the Science of Ornithology.

OFFICIALS.

*President.*—W. E. Clark, LL.D., F.L.S.

*Editor.*—W. L. Sclater, M.A., F.Z.S.

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G. M. Mathews, F.Z.S.

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**Publication.**—Ibis (quarterly).

**THE LONDON MATHEMATICAL SOCIETY,** Burlington House, Piccadilly, W. 1.  
(1865.)

Founded to further the promotion and extension of Mathematical knowledge.

OFFICERS.

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G. H. Hardy, M.A., F.R.S., Trinity College, Cambridge.

**Publication.**—Proceedings of the London Mathematical Society (four or five times annually).

**ROYAL HISTORICAL SOCIETY**, 22, Russell Square, W.C. 1. (1868.)*Patron.*—H.M. the King.

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Transactions (annual).

The Camden Series (about two a year).

**THE SOCIETY OF PUBLIC ANALYSTS AND OTHER ANALYTICAL CHEMISTS**,

Burlington House, Piccadilly, W. 1. (1874.)

The objects of the Society are to cultivate the study of Analytical Chemistry by holding periodical meetings, and by the publication of a journal devoted mainly to Analytical Chemistry; to study questions relating to the adulteration of articles of foods, drugs, and commercial products generally, and its detection; and to promote the efficiency and proper administration of the laws relating to the repression of adulteration.

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**Publication.**—The Analyst (monthly). *Editor* : J. L. Baker, F.I.C.**SOCIETY FOR THE PROMOTION OF ROMAN STUDIES**, 19, Bloomsbury Square, W.C. 1.

## OFFICERS.

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**Objects.**—The Society has been formed to effect for the History, Art, and Archeology of Rome what the Hellenic Society has for many years been doing with admirable results for Greece. Its scope embraces the History, Art, and Archeology of Rome, Italy, and the Roman Empire up to about A.D. 700. Medieval and Renaissance Italy have been left to other bodies. In connection with the Hellenic Society the Roman Society maintains at 19, Bloomsbury Square, a joint library of Greek and Roman Archeology and History, a collection of lantern slides and photographs. These are open to members of both Societies.

**Publication.**—The Journal of Roman Studies, Vol. VIII., Parts 1 and 2.**SOCIETY FOR PSYCHICAL RESEARCH, ENGLAND**, 20, Hanover Square, W. 1. (1882.)

## OFFICIALS.

*President.*—Wm. McDougall, F.R.S., M.Sc., M.B.*Hon. Secretary.*—Mrs. Henry Sidgwick.*Secretary.*—Miss I. Newton.**Publications.**—Proceedings, published irregularly. Current part, Part LXXVII, V ol. XX.

**THE RÖNTGEN SOCIETY**, temporarily at the McNeal Society of London,  
11, Chandos Street, W. (1897.)

OFFICIALS.

*President*.—G. B. Batten, M.D., C.M.  
*Hon. Secretaries*.—R. Knox, M.D.; S. Russ, D.Sc.  
*Hon. Treasurer*.—G. Pearce.

**Publication**.—The Journal of the Röntgen Society (quarterly).

**THE HISTORICAL ASSOCIATION**, 22, Russell Square, W.C.

OFFICIALS.

*President*.—Prof. C. H. Firth, M.A., LL.D., Litt.D., B.A.  
*Treasurer*.—Miss A. M. Baylay.  
*Secretary*.—Miss M. B. Curran.

**Publications**.—

History (quarterly).  
Annual Bulletin of Historical Literature.  
Bibliographies.

**THE FARADAY SOCIETY**, 10, Essex Street, Strand, W.C. 2. (1903.)

To promote the study of Electrochemistry, Electrometallurgy, Chemical Physics, Metallography, and kindred subjects.

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**Publications**.—

Transactions (quarterly and half-yearly).  
Proceedings (monthly).

**THE ASSOCIATION OF ECONOMIC BIOLOGISTS.**

The Association was reorganized in its present form in 1914, and its membership is open to all workers in Applied Biology. The annual subscription is one guinea, the entrance fee being half a guinea.

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**Publication**.—"Annals of Applied Biology." *Editor*: E. E. Green, Way's End, Camberley, Surrey.

**THE JOHN INNES HORTICULTURAL INSTITUTION**, Mostyn Road, Merton Park, S.W. 19. (1910.)

*Director*.—W. Bateson, M.A., F.R.S.

The Institution was founded by the will of the late John Innes, proved in 1905, and is governed by a body of Trustees, advised by a Council representative of various public bodies. In pursuance of the purposes of the Institution Studentships of various grades have been awarded to persons selected to undertake investigation of a scientific or practical nature on subjects connected with horticulture, and exhibitions are provided tenable by young men training to become gardeners, who hold a position analogous to that of the "young gardeners" at Kew. Facilities are also given for investigations cognate to the work of the Institution carried out by qualified persons not members of the Staff.

## ROYAL BOTANIC GARDENS, Kew.

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*Terms :* October to June.

*Students :* 200.

*Budget :* \$100,000.

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*Chancellor.*—The Hon. William J. Roche, M.D., LL.D., M.P.

*President.*—(Vacant.)

*Registrar.*—K. P. R. Neville, M.A., Ph.D.

*Bursar.*—William Waugh, M.D., LL.D.

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For Master's degree, Cambridge shape with long closed sleeves, of black worsted stuff or silk, untrimmed, open or closed.

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## Professors :

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N. C. James, *German*.

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K. P. R. Neville, *Classics*.

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E. H. Perkins, *Geology*.

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W. F. Tamblin, *English Literature*.

C. C. Waller, *Hebrew*.

L. A. Wood, *History and Economics*.

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J. B. Campbell, *Medicine*.



**Associate Professors—Continued.**

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*Terms* : Two a year.

*Students* : 1,079.

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C. C. Douglas, *Greek Language and Literature*.  
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H. Herbert, *Physical Diagnosis.*  
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G. W. McCoy, *Ophthalmology.*  
P. C. H. Pahl, *Orthopedic Surgery, Fractures and Dislocations, and Chief of University Hospital and Clinic.*  
G. J. Lund, *Otology, Laryngology, and Rhinology.*  
H. Shoemaker, *Surgery.*  
H. E. Southworth, *Gynecology.*  
W. F. Wessels, *Medicine.*

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B. C. Hanna, *Public Corporations, California Codes.*  
F. W. Houser, *Private Corporations and Ethics.*  
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C. E. Millikan, *Practice.*  
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G. Newkirk, *Contracts.*  
F. M. Porter, *Evidence, Bailments, and Carriers.*  
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 L. E. Ford, *Clinical Dentistry*.  
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 A. D. La Touche, *Operative Dentistry*.  
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 J. D. McCoy, *Orthodontia and Radiography, Dental Faculty*.  
 W. R. Molony, *Anatomy*.  
 E. F. Tholen, *Oral Surgery*.  
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- E. L. Eames, *Prosthesis*.  
 J. R. McCoy, *Orthodontia*.  
 D. D. Thornton, *Oral Surgery*.  
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## Assistant Professor :

- G. B. Oxnham, *Religious Education*.

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 A. M. Perry, *Violin*.  
 J. Plowe, *Flute*.  
 A. Raimondi, *Clarinet*.  
 J. Rosenfold, *Violin*.  
 A. Simonson, *Violoncello*.  
 W. F. Skeele, *Piano and Pipe Organ*.  
 R. M. Smith (Miss), *Piano*.  
 S. R. Valenza, *Harp*.

# COLLEGE OF ORATORY.

## Professor :

- E. Yoder (Miss), *Dramatic Art*.

**Post-Graduate Courses.**—Leading to A.M., LL.M., J.D., and Phar.B.

**Library.**—University Library of 37,000 volumes. *Librarian :* Miss C. M. Brown

## Museums.—

- Geology and Mineralogy.  
 Marine Biological Station. *Director :* A. B. Ulrey, A.M.

# SOUTHERN CALIFORNIA ACADEMY OF SCIENCES, Los Angeles, California. (1891.

## OFFICERS AND DIRECTORS.

- President.*—Holdridge O. Collins, LL.D.  
*First Vice-President.*—M. F. Baumgardt.  
*Second Vice-President.*—A. Davidson.  
*Third Vice-President.*—A. B. Benton.  
*Treasurer.*—S. J. Keese.  
*Secretary.*—G. W. Parsons.

## SECTIONS OF THE ACADEMY.

### Astronomical Section.

- Chairman.*—M. F. Baumgardt.  
*Secretary.*—S. J. Keese.

### Geological Section.

- Chairman.*—W. L. Watts.  
*Secretary.*—G. W. Parsons.

### Publications.—

- Bulletin. Proceedings.

### Biological Section.

- Chairman.*—Dr. J. C. Clark.  
*Secretary.*—R. D. Jewett.

### Botanical Section.

- Chairman.*—Dr. A. Davidson.  
*Secretary.*—T. Payne.

# LOUISVILLE (Kentucky).

**SOUTHERN BAPTIST THEOLOGICAL SEMINARY**, Louisville, Kentucky. (1859.)

*Terms* : Four per year. *Students* : 315 Undergraduates, 9 Graduates.

## OFFICIALS.

*President*.—E. Y. Mullins, D.D., LL.D.

*Librarian*.—J. R. Sampey, D.D.

**Degrees conferred**.—Th.G., Th.B., Th.M., Th.D.

## PROFESSORS.

### Professors:

E. Y. Mullins, *Theology, Systematic and Biblical Theology*.

J. R. Sampey, *Interpretation of the Old Testament*.

A. T. Robertson, *Interpretation of the New Testament*.

F. M. Powell, *Church History*.

W. O. Carver, *Comparative Religion and Missions*.

### Professors—Continued :

G. B. Eager, *Pastoral Theology*.

C. S. Gardner, *Homiletics, Christian Sociology, and Sunday-School Pedagogy*.

H. C. Wayman, *Biblical Introduction*.

### Associate Professor :

L. P. Leavell, *Sunday-School Pedagogy*.

5 Instructors, etc.

**Post-Graduate Courses** for Th.D. (Doctor in Theology).

**Learned Society**.—Society for Missionary Inquiry.

## AFFILIATED INSTITUTION.

Women's Missionary Union Training School.

# LUCKNOW.

**THE ISABELLA THOBURN COLLEGE**, Lucknow. (1870.)

Affiliated to the University of Allahabad.

## OFFICIALS.

*Principal*.—Miss Flora L. Robinson, B.A.

*Headmistress of Teachers' Training*.—Miss M. Landrum, B.A.

*Treasurer*.—Miss E. P. Maddan.

## INSTRUCTIVE STAFF.

*Principal*.—Miss Flora L. Robinson, B.A.

*Professor of Philosophy and Latin*.—Miss Enola Eno.

*Professor of Chemistry and Biology*.—Miss Inez Mason.

*Professor of Physics*.—Miss Lillie Rockwell.

*Professor of Mathematics*.—Miss Mabel Lawrence.

*Professors of English*.—Miss Dimmitt, Miss Manchester.

*Professor of European History*.—Miss Wilma Eustis.

*Professor of Indian History*.—K. C. Roy.

*Professor of Ancient History*.—Miss Mona Sircar.

*Professor of Persian*.—Babu Baij Nath.

*Teachers' Training Department*.—Miss Margaret Landrum, Miss Susan Walsh.

*Physical Training* (under appointment).—Miss Florence Salzer.

## PROFESSORS.

### COLLEGE OF ARTS.

M. Shively (Miss), *English*.

C. Eno (Miss), *Philosophy*.

U. Eustis (Miss), *European and Ancient History*.

E. V. Jenkins (Miss), *Latin*.

Roy Saneksar, *Indian History*.

Munshi B. Nath, *Persian*.

F. Salzer (Miss), *Economics*.

**Libraries**.—One Library of 3,000 volumes. *Librarian* : Miss M. Landrum, B.A.

### COLLEGE OF SCIENCE.

L. Rockwell (Miss), *Physics*.

I. Mason (Miss), *Chemistry*.

N. Bacon (Miss), *Biology*.

## TEACHERS' TRAINING.

S. Walsh (Miss), *Normal Methods*.

H. Yodin (Miss), *Kindergarten*.



**LUCKNOW CHRISTIAN COLLEGE, Lucknow. (1872.)**

This College is maintained by the Board of Foreign Mission of the Methodist Episcopal Church of the United States of America. Affiliated to the University of Allahabad.

*Terms* : One a year—July to April.

*Students* : 255.

*Budget* : Rs. 135,000 per annum.

OFFICIAL.

*Principal*.—Rev. T. C. Badley, B.A.

PROFESSORS.

**COLLEGE OF ARTS.**

**Professors :**

M. M. Hadi, *Persian*.  
N. D. Shastri, *Sanskrit*.  
M. W. Branch, *Commerce*.  
H. A. Hanson, *Economics*.  
R. D. Wellons, *English*.  
W. S. Desai, *History*.

**Assistant Professor :**

K. C. Mozumdar, *English*.  
B. K. Kothari, *Commerce*.

**COLLEGE OF SCIENCE.**

**Professors :**

J. N. Hollister, *Zoology*.  
S. K. Zibbu, "  
E. R. Tweedie, *Chemistry*.  
N. N. Bose, *Mathematics*.  
G. N. Bhakay, *Botany*.  
P. Dayal, *Physics*.

**Assistant Professors :**

T. N. Dass, *Chemistry*.  
G. N. Bannerjee, *Physics*.

**Library**.—The Library contains about 4,000 volumes.

**MADISON (Wisconsin).**

**UNIVERSITY OF WISCONSIN, Madison, Wisconsin. (1849.)**

*Terms* : Two semesters and one Summer session.

*Students* : 6,978 (includes regular session, short courses, and summer session).

*Budget* (1918-19) : \$3,532,305.64.

OFFICIALS.

*President*.—E. A. Birge, Ph.D., Sc.D., LL.D.

*Secretary*.—M. H. Haertel.

*Registrar*.—W. D. Hiestand.

**Degrees conferred**.—B.A., Ph.B. (General Course), Ph.B. (Course for Normal School Graduates), LL.B., Mus.Bac., B.S. (Agriculture), B.S. (Home Economics), B.S. (Civil, Electrical, Mechanical, Mining, and Chemical Engineering), B.S. in Chemistry, B.S. in Pharmacy, B.S. in Medical Science, M.A., M.S., Ph.M., C.E., M.E., E.E., Min. E., Ph.D.

**Graduate Certificates**.—Graduate in Agriculture, Graduate in Pharmacy, Master of Pharmacy (for Graduates in Pharmacy).

PROFESSORS.

**COLLEGE OF LETTERS AND SCIENCE.**

**Professors :**

C. E. Allen, *Botany*.  
W. G. Bleyer, *Journalism*.  
L. J. Cole, *Genetics*.  
J. R. Commons, *Economics*.  
G. C. Comstock, *Astronomy*.  
F. D. Crawshaw, *Manual Arts*.  
A. L. P. Dennis, *History*.  
W. H. Dudley, *Visual Instruction*.  
P. W. Dykema, *Music*.  
F. H. Elwell, *Accounting*.  
R. T. Ely, *Economics*.  
R. Fischer, *Chemistry*.  
C. R. Fish, *History*.  
W. F. Giese, *Romance Languages*.

**Professors—Continued :**

J. L. Gillin, *Sociology*.  
S. W. Gilman, *Business Administration*.  
E. B. Gordon, *Music*.  
M. F. Guyer, *Zoology*.  
V. A. C. Henmon, *Education*.  
A. R. Hohlfeld, *German*.  
F. G. Hubbard, *English*.  
J. Jastrow, *Psychology*.  
C. L. Jones, *Political Science*.  
T. E. Jones, *Physical Education*.  
L. Kahlenberg, *Chemistry*.  
E. J. Kraus, *Botany*.  
C. K. Leith, *Geology*.  
V. Lenher, *Chemistry*.  
C. B. Lester, *Library Training*.

**Professors—Continued :**

- W. H. Lighty, *Correspondence Study*.  
 E. B. McGilvary, *Philosophy*.  
 A. L. Marlatt (Miss), *Home Economics*.  
 M. Mason, *Mathematical Physics*.  
 J. H. Matthews, *Chemistry*.  
 W. J. Meek, *Physiology*.  
 F. E. Mendenhall, *Physics*.  
 C. H. Mills, *Music*.  
 F. A. Ogg, *Political Science*.  
 J. E. Olson, *Scandinavian Languages and Literature*.  
 J. M. O'Neill, *Rhetoric and Oratory*.  
 M. V. O'Shea, *Education*.  
 E. T. Owen, *French and Linguistics*.  
 F. A. Parker, *Music*.  
 F. L. Paxson, *History*.  
 A. S. Pearse, *Zoology*.  
 W. T. Root, *History*.  
 E. A. Ross, *Sociology*.  
 W. A. Scott, *Economics*.  
 G. C. Sellery, *History*.  
 F. C. Sharp, *Philosophy*.  
 G. Showerman, *Latin*.  
 M. S. Slaughter, *Latin*.  
 C. S. Slichter, *Applied Mathematics*.  
 H. A. Smith, *Romance Languages*.  
 B. W. Snow, *Physics*.  
 E. B. Van Vleck, *Mathematics*.  
 E. K. J. Voss, *Germanic Philology*.  
 J. H. Walton, *Chemistry*.  
 W. L. Westerman, *History*.  
 R. H. Whitbeck, *Geography*.  
 W. H. Williams, *Semitic Languages and Hellenistic Greek*.  
 F. H. Wilson, *Economic Entomology*.  
 A. N. Winchell, *Mineralogy and Petrology*.  
 C. P. Winslow, *Forest Products*.  
 J. S. Wood, *Military Science and Tactics*.  
 K. Young, *English*.

**Associate Professors :**

- A. Beatty, *English*.  
 S. Blanton, *Public Speaking*.  
 W. B. Cairns, *American Literature*.  
 O. J. Campbell, *English*.  
 B. Cerf, *Romance Languages*.  
 W. J. Chase, *History*.  
 F. S. Cheydeur, *Romance Languages*.  
 F. L. Clapp, *Education*.  
 E. Conley (Miss), *Home Economics*.  
 R. E. N. Dodge, *English*.  
 L. W. Dowling, *Mathematics*.  
 J. C. Elsom, *Physical Education*.  
 V. C. Finch, *Geology*.  
 G. C. Fiske, *Latin*.  
 E. H. Gardner, *Business Administration*.  
 E. M. Gilbert, *Botany*.  
 S. H. Goodnight, *German*.  
 A. B. Hall, *Political Science*.  
 R. H. Hess, *Economics*.

**Associate Professors—Continued :**

- G. M. Hyde, *Journalism*.  
 L. R. Ingersoll, *Physics*.  
 W. H. Kieckhofer, *Economics*.  
 J. L. Kind, *German*.  
 F. C. Krauskopf, *Chemistry*.  
 A. G. Laird, *Greek and Comparative Philology*.  
 H. B. Lathrop, *English*.  
 D. D. Lescossier, *Economics*.  
 G. S. Lowman, *Physical Education*.  
 F. Manchester, *English*.  
 W. S. Marshall, *Entomology*.  
 W. J. Mead, *Geology*.  
 A. V. Millar, *Drawing and Descriptive Geometry*.  
 M. C. Otto, *Philosophy*.  
 J. F. Pyre, *English*.  
 E. C. L. C. Roedder, *German Philology*.  
 W. T. Root, *History*.  
 E. B. Schlatter, *Romance Languages*.  
 C. L. Schmit (Miss), *Home Economics*.  
 E. B. Skinner, *Mathematics*.  
 G. M. Smith, *Botany*.  
 C. Starch, *Psychology and Education*.  
 W. D. Stovall, *Hygiene*.  
 E. M. Terry, *Physics*.  
 B. M. Trilling (Miss), *Physical Education*.  
 W. H. Twenhofel, *Geology*.  
 W. H. Varnum, *Manual Arts*.  
 G. Wagner, *Zoology*.  
 J. W. Watson, *Electrical Engineering*.

**Assistant Professors :**

- H. B. Adkins, *Chemistry*.  
 K. Allen (Miss), *Latin*.  
 E. G. Atkin, *Romance Languages*.  
 F. H. Bair, *English*.  
 E. T. Bartholomew, *Botany*.  
 E. F. Bean, *Geology*.  
 H. R. Brown (Miss), *Physical Education*.  
 F. Bruns, *German*. [tion.  
 E. H. Byrne, *History*.  
 C. D. Cool, *Romance Languages*.  
 R. H. Denniston, *Botany*.  
 B. F. Dodge (Miss) *Home Economics*.  
 A. Dresden, *Mathematics*.  
 A. B. Ernst (Miss), *German*.  
 F. A. Ernst, *Romance Languages*.  
 L. M. Gay (Miss), *Romance Languages*.  
 W. Geltech, *Music*.  
 C. F. Gillen, *Romance Languages*.  
 L. S. Greene, *Manual Arts*.  
 M. H. Haertel, *German*.  
 W. W. Hart, *Mathematics*.  
 M. M. D'Hauler (Miss), *Physical Education*.  
 E. Hillstrom (Miss), *Home Economics*.  
 H. G. Houghton, *Public Speaking*.  
 G. Johnson (Miss), *Public Speaking*.  
 D. C. Keister, *Business Administration*.  
 J. Keliher, *Military Science and Tactics*.

**Assistant Professors—Continued :**

- W. J. Keller, *German*.  
 F. T. Kelly, *Semitic Languages and Hellenistic Greek*.  
 A. E. Koenig, *Chemistry*.  
 J. Krueger (Miss), *Home Economics*.  
 E. P. Lane, *Mathematics*.  
 E. P. Leonard (Miss), *English*.  
 L. C. Lippitt (Miss), *Physical Education*.  
 A. K. Lobeck, *Geology*.  
 Lloyd Jones, *Education*.  
 A. E. Lyon, *Romance Languages*.  
 F. H. MacGregor, *Political Science*.  
 K. F. McMurtry, *Economics*.  
 H. W. March, *Mathematics and Physics*.  
 R. B. Michell, *Romance Languages*.  
 A. V. Millar, *Drawing and Descriptive Geometry*.  
 H. L. Miller, *Education*.  
 C. E. Muller, *Romance Languages*.  
 F. L. Nardin (Miss), *English*.  
 W. Nebel, *Chemistry*.  
 J. Ortega, *Romance Languages*.  
 R. S. Owen, *Topographical Engineering*.  
 C. S. Pendleton, *English*. [ing.  
 J. D. Phillips, *Drawing and Descriptive Geometry*.  
 A. M. Pitman (Miss), *English, Greek, and Latin*.  
 J. B. Read, *Business Administration*.  
 F. O. Reed, *Romance Languages*.  
 J. R. Richards, *Physical Education*.  
 F. W. Roe, *English*.  
 J. R. Roebuck, *Physics*.  
 F. E. Sabin, *Latin*.  
 F. E. Schlatter, *Physical Education*.  
 S. Schlomovits, *Pharmacology and Toxicology*.  
 H. A. Schuette, *Chemistry*.  
 L. P. Shanks, *Romance Languages*.  
 C. A. Smith, *History*.  
 E. Steidtmann, *Geology*.  
 S. A. Sterling (Miss), *German*.  
 W. F. Steve, *Physics*.  
 E. E. Swinney, *Music*.  
 E. Taylor, *Mathematics*.  
 W. Tavlör, *English*.  
 L. L. Townsend, *Music*.  
 B. Ward, *Military Science and Tactics*.  
 A. T. Weaver, *Public Speaking*.  
 F. E. Williams, *Geology*.  
 L. B. Wolfenson, *Semitic Languages and Hellenistic Greek*.

**COLLEGE OF ENGINEERING.**

**Professors :**

- E. Bennett, *Electrical Engineering*.  
 J. G. Callan, *Steam and Gas Engineering*.  
 B. G. Elliott, *Mechanical Engineering*.  
 G. A. Hool, *Civil and Structural Engineering*.

**Professors—Continued :**

- C. M. Jansky, *Electrical Engineering*.  
 O. L. Kowalke, *Chemical Engineering*.  
 R. S. McCaffery, *Mining and Metallurgy*.  
 E. R. Maurer, *Mechanics*.  
 D. W. Mead, *Hydraulic Engineering*.  
 E. M. Shealy, *Steam Engineering*.  
 L. S. Smith, *Topographic and Highway Engineering*.  
 F. E. Turneaure, *Engineering*.

**Associate Professors :**

- C. I. Corp, *Hydraulic Engineering*.  
 E. R. Jones, *Agricultural Engineering*.  
 W. S. Kinne, *Structural Engineering*.  
 G. L. Larson, *Steam and Gas Engineering*.  
 L. F. Van Hagen, *Railway Engineering*.  
 O. P. Watts, *Chemical Engineering*.  
 M. O. Withey, *Mechanics*.

**Assistant Professors :**

- A. E. Berggren, *Steam and Gas Engineering*.  
 F. W. Duffee, *Agricultural Engineering*.  
 H. S. Frary, *Steam and Gas Engineering*.  
 A. L. Goddard, *Mechanical Practice*.  
 G. W. Hobbs, *Agricultural Engineering*.  
 P. H. Hyland, *Machine Design*.  
 J. O. Karmmerman, *Electrical Engineering*.  
 J. B. Kommers, *Mechanics*.  
 G. J. Mitchell, *Chemical Engineering*.  
 H. D. Orth, *Mechanical Drawing and Descriptive Geometry*.  
 J. R. Price, *Electrical Engineering*.  
 E. R. Shorey, *Mining and Metallurgy*.  
 J. H. Swenchart, *Agricultural Engineering*.  
 C. N. Ward, *Hydraulic Engineering*.

**COLLEGE OF AGRICULTURE.**

**Professors :**

- A. S. Alexander, *Veterinary Science*.  
 D. S. Bullock, *Animal Husbandry*.  
 E. H. Farrington, *Dairy Husbandry*.  
 W. D. Frost, *Agricultural Bacteriology*.  
 J. G. Fuller, *Animal Husbandry*.  
 F. B. Hadley, *Veterinary Science*.  
 J. G. Halpin, *Poultry Husbandry*.  
 E. B. Hart, *Agricultural Chemistry*.  
 E. G. Hastings, *Agricultural Bacteriology*.  
 K. L. Hatch, *Agricultural Education*.  
 B. H. Hibbard, *Agricultural Economics*.  
 A. W. Hopkins, *Agricultural Journalism*.  
 G. C. Humphrey, *Animal Husbandry*.  
 L. R. Jones, *Plant Pathology*.  
 J. G. Moore, *Horticulture*.  
 R. A. Moore, *Agronomy*.  
 J. B. Overton, *Plant Physiology*.  
 H. L. Russell, *Agriculture*.  
 A. R. Whitson, *Soils*.

**Associate Professors :**

B. Beach, *Veterinary Science*.  
E. J. Delwiche, *Agronomy*.  
E. B. Fred, *Agricultural Bacteriology*.  
L. F. Graber, *Agronomy*.  
R. S. Hulce, *Animal Husbandry*.  
J. A. James, *Agricultural Education*.  
A. G. Johnson, *Plant Pathology*.  
G. W. Keitt, *Plant Pathology*.  
T. Macklin, *Agricultural Economics*.  
J. G. Milward, *Horticulture*.  
F. B. Morrison, *Animal Husbandry*.  
W. H. Peterson, *Agricultural Chemistry*.  
J. L. Sammis, *Dairy Husbandry*.  
H. Steenbock, *Agricultural Chemistry*.  
W. E. Tottingham, *Agricultural Chemistry*.  
E. Truog, *Soils*.

**Assistant Professors:**

F. A. Aust, *Horticulture*.  
G. H. W. Benkendorf, *Dairy Husbandry*.  
A. Boring (Miss), *Home Economics*.  
G. Bohstedt, *Animal Husbandry*.  
P. W. Boutwell, *Agricultural Chemistry*.  
G. M. Briggs, *Agronomy*.  
I. G. Dickson, *Plant Pathology*.  
W. J. Geib, *Soils*.  
P. M. Harmer, *Soils*.  
J. Johnson, *Horticulture*.  
F. Kleinheinz, *Animal Husbandry*.  
B. D. Leith, *Agronomy*.  
E. W. Linstrom, *Genetics*.  
N. L. McMurry, *Economic Entomology*.  
G. B. Mortimer, *Agronomy*.  
F. L. Musbach, *Soils*.  
G. F. Potter, *Horticulture*.  
G. Richards, *Soils*.  
R. H. Roberts, *Horticulture*.  
M. H. Scott, *Animal Husbandry*.  
H. W. Stewart, *Soils*.

**Post-Graduate Courses.**—Full graduate school in all departments.

**Museums.**—Engineering, State Historical, Geological, Herbarium, Art, and Chemical and Drugs.

**Libraries.**—Historical, University, Engineering, Law, and Agricultural Libraries. 519,600 volumes and 270,800 pamphlets. *Librarian* : W. M. Smith.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. L. Russell.

**MADRAS.**

**THE UNIVERSITY OF MADRAS**, Senate House, Chepauk, Madras. (1857.)

*Terms* : Three a year.

*Number of Students* :

Arts	..	..	..	..	8,995
Medicine	..	..	..	..	327
Engineering	..	..	..	..	128

Total .. .. 9,450

**Associate Professors—Continued :**

A. L. Stone, *Agronomy*.  
W. A. Sumner, *Agricultural Journalism*.  
H. W. Ullsperger, *Soils*.  
J. C. Walker, *Plant Pathology*.  
J. F. Wojta, *Agricultural Extension*.  
A. N. Wright, *Agronomy*.  
W. H. Wright, *Agricultural Bacteriology*.

**MEDICAL SCHOOL.**
**Professors :**

C. R. Bardeen, *Anatomy*.  
H. C. Bradley, *Physiology*.  
C. H. Bunting, *Pathology*.  
P. F. Clark, *Bacteriology*.  
H. E. Dearholt, *Health Instruction*.  
J. S. Evans, *Clinical Medicine*.  
J. A. E. Eyster, *Physiology*.  
E. Kremers, *Pharmaceutical Chemistry*.  
A. S. Loevenhart, *Pharmacology and Toxicology*.  
W. S. Miller, *Anatomy*.  
R. Van Valzah, *Clinical Medicine*.

**Assistant Professors :**

P. M. Dawson, *Physiology*.  
V. C. Jacobson, *Pathology*.  
O. Larsell, *Anatomy*.  
W. S. Middleton, *Clinical Medicine*.  
S. J. Morris (Miss), *Clinical Medicine*.  
G. H. Robbins                   "                   "

**LAW SCHOOL.**
**Professors :**

E. A. Gilmore, *Law*.  
W. H. Page, *Law*.  
H. S. Richards, *Law*.  
O. S. Rundell, *Law*.  
H. L. Smith, *Law*.

**Associate Professor :**

J. S. Wickham, *Law*.



## OFFICIALS.

*Chancellor.*—His Excellency the Governor of Madras.

*Vice-Chancellor.*—The Hon. Mr. Justice F. D. Oldfield, I.C.S.

*Registrar.*—Francis Dewsbury, B.A., LL.B.

*Budget:* The finances of the University comprise: (1) Fees utilized for administration 1918-19: Receipts, Rs. 3,84,457; Expenditure Rs. 3,15,318. (2) Endowments for prizes, medals, etc.: Capital Account, Rs. 2,8,150. (3) Imperial Recurring Grant: Rs. 65,000 per annum. (4) Imperial Non-Recurring Grants. (5) Grants from the Government of Madras for special purposes. (6) University Expansion Fund. The accumulated invested balance of the University now amount to nearly 23 lakhs of rupees.

**Degrees conferred.**—B.A., M.A., B.Sc., M.Sc., L.T., LL.B., LL.M., LL.D., M.B., B.S., M.D., L.M., L.S., M.S., B.Sc., B.E.

**Professors :**

G. Slater, *Indian Economics*.

Rao Sahib S. Krishnaswami Aujangar, *Indian History and Archeology*.

These Professors are under the direct control of the University. Each affiliated college has its own staff of Professors and Lecturers.

**Lecturers.**—With the exception of the two Professors named above, the University, as such, has no staff engaged directly in teaching. The University appoints annually ordinary University Lecturers mainly to assist the affiliated colleges in giving instruction in Honours Courses. For the same purpose intercollegiate lectures are also arranged. The University organizes from time to time special lectures by eminent persons in Europe and India.

**Library.**—The University Library contains over 20,000 volumes.

**Post-Graduate Courses.**—Research studentships up to a maximum of 8 per annum are granted to graduate students. These studentships are of the value of from Rs. 75 to Rs. 200 per mensem and are generally tenable for a period of three years.

## AFFILIATED INSTITUTIONS.

The number of colleges affiliated to the University is as follows:

*In the Faculty of Arts and Science.*—

Training Colleges for Teachers, 2.

Colleges affiliated up to Honours Course, 4.

Colleges affiliated up to B.A. Degree Course, 17.

Colleges affiliated up to Intermediate Course, 28.

*In the Faculty of Law,* 2.

*In the Faculty of Medicine,* 1.

*In the Faculty of Engineering,* 1.

**COLLEGE OF ENGINEERING, Madras. (1794.)**

Affiliated to the University of Madras.

*Students :* 520.

*Budget :* Rs. 160,000.

## OFFICIALS.

*Principal.*—W. H. James, M.Sc., M.I.M.E., A.M.Inst.C.E.

## PROFESSORS.

H. W. Barker, *Civil Engineering*.

C. L. Cartwright, *Mechanical Engineering*.

H. B. Matthews, *Electrical Engineering*.

M. R. R. K. R. Ramaswami Azyangar, *Mathematics*.

**DEPARTMENT OF FISHERIES, Government Fisheries Bureau, Mount Rd., Madras.**

*Director.*—J. Hornell, F.L.S.

*Honorary Superintendent, West Coast Stations.*—Sir F. A. Nicholson, K.C.I.E.

*Marine Biologist.*—R. H. Whitehouse, M.Sc.

*Marine Assistant.*—J. H. Allen, O.B.E.

*Assistant Director.*—Rao Bahadur V. V. Govindan, B.A., F.Z.S.

*Piscicultural Assistant.*—B. Sundara Raj, M.A.

*Zoological Assistant.*—S. T. Moses, M.A.

**Scientific and Technical Institutions under the Department.**

Marine Aquarium, at Madras, opened 1909.

Biological Station, Krusadai Island, Pamban, at the head of the Gulf of Mannar (under construction).

Training School for Teachers (Fisheries Schools), Calicut, opened 1919.

Various industrial experimental Stations, including model cannery, etc.

**Publications.**—"Madras Fisheries Bulletins," of which eleven volumes have appeared. Contains both zoological and technical reports.

**MADURA (India).**

**THE AMERICAN COLLEGE**, Madura, South India. (1881.)

Affiliated with the University of Madras.

*Terms* : Two a year.

*Students* : 318.

*Budget* :

Staff	.. .. .	58,285 Rupees.
Science Apparatus, etc.	.. .. .	13,770 ..

**OFFICIALS.**

*Principal*.—W. M. Zumbro, M.A.

*Vice-Principal*.—Peter Isaac, B.A., L.T.

*Secretary*.—A. J. Saunders, M.A.

*Treasurer*.—E. M. Flint, M.A.

*Warden of Hostel*.—E. L. Nolting, M.A.

*Librarian*.—A. J. Saunders, M.A.

**PROFESSORS.**

W. M. Zumbro, *English*.

A. D. Massillamoni, *English*.

E. L. Nolting ..

N. R. Kedari Raaf ..

I. Sathianathan ..

J. E. Kesari ..

A. J. Saunders, *History and Economics*.

L. C. Guise ..

P. C. Chacko ..

K. Kameswaram ..

E. M. Flint, *Physical Science*.

N. K. Aiyar ..

K. S. V. Aiyanger, *Physical Science*.

S. M. Aiyer, *Physical Science*.

S. Chelladurai, *Natural Science*.

P. Isaac, *Logic*.

S. M. Aiyar, *Mathematics*.

S. Sessa Sastrial, *Sanskrit*.

A. K. Konar, *Tamil*.

K. R. Nambiar, *Malayalam*.

**Library.**—General Library of 5,700 volumes, 200 bound periodicals, 250 unbound periodicals. *Librarian* : A. J. Saunders.

**MALTA, UNIVERSITY OF.** See VALETTA.

**MANCHESTER.**

**THE VICTORIA UNIVERSITY OF MANCHESTER**, Oxford Road, Manchester. (1851.)

*Terms* : Three per year.

*Students* : 2,549.

*Budget* : Total Assets, £1,842,773 12s. 3d.

**OFFICIALS.**

*Chancellor*.—Rt. Hon. Viscount Morley of Blackburn, C.M.

*Vice-Chancellor*.—Sir Henry A. Miers, M.A., Ph.D., F.R.S.

*Registrar*.—Edward Fiddes, M.A.

**Degrees conferred.**—Ph.D., Litt.D., M.A., B.A., D.Sc., M.Sc., B.Sc., LL.D., LL.B., M.D., Ch.M., M.B., Ch.B., Mus.D., Mus.B., M.Com., B.Com., D.D., B.D., M.S.Tech., B.Sc.Tech., M.Ed.

**Hoods.**—The Hoods of Bachelors and Masters shall be of fine black cloth or silk, trimmed in the following manner:

Degrees conferred—Continued.

Degrees.	Hoods.
B.A.	- Edging of pale blue silk, with a white fur lining inside the edging.
M.A.	- Lining of pale blue silk.
B.Sc.	- Edging of salmon silk, with a white fur lining inside the edging.
M.Sc.	- Lining of salmon silk.
LL.B.	- Broad edging of violet-coloured silk.
M.B.	- Broad edging of red silk.
M.Sur.	- Lining of red silk.
B.D.S.	- Edging of fawn silk, with a white fur lining inside the edging.
M.D.S.	- Lining of fawn silk.
Mus.B.	- Dark blue silk, with a two-inch border of light blue silk on both the inner and outer side.
B.Com.	- Edging of orange silk, with a white fur lining inside the edging.
M.Com.	- Lining of orange silk.
B.D.-	- Lining of heliotrope silk, with a white fur edging within the silk.
B.T.S.	- Edging of terra-cotta corded silk, and a white fur lining inside the edging.
M.T.S.	- Lining of terra-cotta corded silk.
M.Ed.	- Lining of bluish-green silk.

The hoods for the degrees of Litt.D., D.Sc., LL.D., DD., and M.D., shall be of velvet or of satin serge of a gold colour, lined with silk of a lighter shade of the same colour.

PROFESSORS.

FACULTY OF ARTS.

Professors :

- T. F. Tout, *History*.
- S. Alexander, *Philosophy*.
- A. Johannson, *Germanic Philology*.
- C. H. Herford, *English Language and Literature*.
- G. E. K. Bramholtz, *Classics*.
- E. H. Parker, *Chinese*.
- R. S. Conway, *Latin and Indo-European Philology*.
- L. E. Kastner, *French Language and Literature*.
- G. Unwin, *Economic History*.
- A. C. Dickie, *Architecture*.
- W. J. Sedgfield, *English Language*.
- W. B. Anderson, *Imperial Latin*.
- W. M. Calder, *Greek*.
- J. R. Muir, *Modern History*.
- D. H. Macgregor, *Political Economy*.
- M. V. Trofimov, *Russian*.
- T. H. Pear, *Experimental Psychology*.
- J. Orr, *French Language*.
- E. G. Gardner, *Italian Studies*.

Lecturers :

- E. S. Forster, *Classical Archeology*.
- H. B. Charlton, *English Literature*.
- F. E. Harmer
- P. Sheavyn (Miss), *English Literature*.
- J. Marks, *French*.
- A. Valette
- A. Mingana, *Arabic*.
- M. H. Farbridge, *Assyriology*.
- L. C. Casartelli, *Iranian Languages*.
- T. E. Peet, *Egyptology*.
- A. G. Little, *Paleography*.
- E. Fiddes, *Roman History*.
- A. W. Daniels, *Economics*.

Lecturers—Continued :

- M. E. Powell (Miss), *Economics*.
- A. G. Oglivie, *Geography*.
- J. Macmurray, *Philosophy*.
- H. McLachlan, *Hellenistic Greek*.
- F. W. Halliday, *German*.
- M. D. I. Lloyd
- A. Kirk, *Modern Languages*.

Reader :

- W. T. Waugh, *Ecclesiastical History*.
- 12 Assistant Lecturers.

FACULTY OF SCIENCE.

Professors :

- Sir H. A. Miers, *Crystallography*.
- H. Lamb, *Mathematics*.
- H. B. Dixon, *Chemistry*.
- F. E. Weiss, *Botany*.
- S. J. Hickson, *Zoology*.
- A. Lapworth, *Organic Chemistry*.
- W. L. Bragg, *Physics*.
- R. Beattie, *Electro-Technics*.
- O. T. Jones, *Geology*.
- S. Chapman, *Mathematics*.

Associate Professor :

- L. Sandeman, *Engineering*.

Readers :

- F. P. Burt, *Inorganic Chemistry*.
- H. G. Hickling, *Geology*.
- J. N. Pring, *Electro-Chemistry*.

Lecturers :

- W. Makower, *Physics*.
- E. J. Evans
- H. Robinson, *Physics*.
- R. W. James, *Chemistry*.
- N. Smith

**Lecturers—Continued :**

J. E. Myers, *Chemistry*.  
W. J. Jones                "  
C. Campbell               "  
H. Stephen               "  
D. H. Baugham           "  
E. G. Gaul, *Bacteriological Chemistry*.  
J. S. Thomson, *Zoology*.  
R. A. Wardle               "  
H. S. Leigh               "  
G. Lapage                "  
R. S. Adamson, *Botany*.  
W. Robinson, *Botany*.  
W. O. Howarth, *Botany*.  
F. K. Charlsworth, *Geology*.  
H. Gerrard, *Electro-Technics*.  
C. B. Dewhurst, *Engineering*.  
F. Buckingham           "  
J. Frith                    "  
T. Cook                    "

**FACULTY OF MEDICINE.**
**Professors :**

A. S. Delepine, *Public Health and Bacteriology*.  
R. B. Wild, *Materia Medica and Therapeutics*.  
G. R. Murray, *Systematic Medicine*.  
W. Thorburn, *Clinical Surgery*.  
J. W. Smith, *Systematic Surgery*.  
A. Donald, *Obstetrics and Gynecology*.  
E. S. Reynolds, *Clinical Medicine*.  
H. R. Dean, *Pathology and Pathological Anatomy*.  
J. S. B. Stopford, *Anatomy*.

**Lecturers :**

J. Morley, *Clinical Anatomy*.  
T. G. Brown, *Experimental Physiology*.  
J. Grier, *Pharmacognosy, etc.*  
H. Simms, *Dental Materia Medica*.  
W. B. Anderton, *Pathology*.  
J. H. Dible                "  
G. E. Loveday            "  
J. Holker                 "  
W. Dyson                 "  
C. P. White               "  
E. M. Brockbank, *Clinical Medicine*.  
A. Ramsbottom           "  
F. E. Tylecote            "  
C. H. Melland            "  
D. E. Core                "  
F. C. Moore, *Systematic Medicine*.  
J. W. Stephens, *Tropical Diseases*.  
J. Fletcher, *Infectious Diseases*.  
H. H. Rayner, *Clinical Surgery*.  
W. H. Hey                "  
J. P. Buckley            "  
E. D. Telford, *Systematic Surgery*.  
P. R. Wrigley, *Operative Surgery*.  
G. Wright                "  
J. H. Ray, *Surgical Pathology*.  
A. H. Burgess, *Practical Surgery*.  
C. Roberts, *Orthopædic Surgery*.

**Lecturers—Continued :**

W. E. Fothergill, *Obstetrics*.  
D. L. Roberts            "  
C. P. Lapage, *Diseases of Children*.  
W. B. Anderton, *Forensic Medicine*.  
J. J. Butterworth, *Hygiene*.  
W. Scowcroft, *Mental Diseases*.  
J. G. Clegg, *Clinical Ophthalmology*.  
G. H. Lancashire, *Dermatology*.  
S. Moritz, *Diseases of the Larynx*.  
Sir W. Milligan, *Diseases of the Ear*.  
A. Wilson, *Anesthetics*.

**Public Health Department.**

E. J. Sidebotham, *Bacteriology (Public Health)*.  
A. Sellers, *Comparative Pathology (Public Health)*.  
H. Hoap, *Practical Chemistry (Public Health)*.  
T. M. Legge, *Factory Hygiene*.  
M. Young, *School Hygiene*.  
M. Woods, *Veterinary Hygiene*.

**SCHOOL OF DENTAL SURGERY.**
**Lecturers :**

C. H. Preston, B. J. Rodway, E. Houghton, H. H. Rayner, D. Headridge, J. P. Headridge, H. Simms, G. G. Campion.

**PHARMACEUTICAL DEPARTMENT.**

Lecturer : J. Grier.

**FACULTY OF LAW.**

Tutor : L. Bottomley.

**Lecturers :**

T. C. Eastwood, E. C. Burgis, F. B. Osborne, H. S. Ferguson, J. Bennett, H. Cardwell, R. A. Eastwood.

**FACULTY OF THEOLOGY.**
**Professors :**

A. S. Peake, *Biblical Exegesis*.  
M. A. Canney, *Semitic Languages and Literature*.

**Readers :**

W. T. Waugh, *Ecclesiastical History*.  
D. Atkinson, *Ancient History*.

**Lecturers :**

Prof. Canney, *Biblical Exegesis*  
Rev. J. T. Marshall, *History of Doctrine*.  
Archdeacon Allen            "  
Rev. S. H. Mellane            "  
Rev. W. H. Bennett            "  
Rev. A. H. Mumford            "  
Rev. L. W. Gransted            "  
Rev. J. T. Breurs                "  
Rev. R. Mackintosh, *Philosophy of Religion*.  
Prof. W. M. Calder, *Christian Epigraphy*.



**FACULTY OF EDUCATION.**

**Professors :**

J. J. Findlay, *Education*.  
H. B. Smith „

**Lecturers :**

C. Herford (Miss), *Education*.  
H. T. Mark „  
A. E. Heath „  
M. E. Eggar (Miss) „  
O. A. Wheeler (Miss) „  
S. A. Burstall (Miss) „  
J. L. Paton „  
I. R. Goldsack, *Training Teachers of the Deaf*.  
G. Conway (Miss), *Continuation School Teaching*.  
F. Keighley (Miss), *Singing*.

**FACULTY OF MUSIC.**

**Lecturers :**

G. Brodsley, W. Carroll, T. Keighley.

**FACULTY OF COMMERCE.**

**Lecturers :**

G. W. Daniels, *Economics*.  
M. E. Powell (Miss), *Economics*.  
H. H. Bellhouse, *Banking*.  
D. D. Fraser „  
H. S. Ferguson, *Accounting*.  
R. A. Berry, *Railway Economics*.  
T. A. Kenyon „ „  
A. D. Lomas „ „  
R. G. McLaughlin „ „

**Post-Graduate Courses** for the Bachelor's Degree in Theology. For the Master's Degrees in Arts, Science, Medicine, Commerce, Technology, and Education. For the degree of Ph.D. For the degree of Doctor in Arts, Science, Law, Medicine, Music, and Theology.

**Museums.—**

The Manchester Museum. *Keeper* : W. M. Tattersall, D.Sc.  
The Pathological Museum. *Curator* : W. B. Anderton.

**Libraries.—**

The Christie Library. *Librarian* : C. W. E. Leigh.  
The Medical Library. *Librarian* : W. Thompson.  
The School of Technology Library. *Librarian* : H. Williams.

**AFFILIATED INSTITUTIONS.**

The Harris Institute, Preston.  
Capetown University (for certain courses).

**COLLEGE OF TECHNOLOGY, Manchester. (1824.)**

The College of Technology has developed from the Mechanics Institute which was founded in 1824. It became connected with the University of Manchester, when in 1905 a Faculty of Technology in the University was established with the Principal of the then School of Technology as Dean of the Faculty, and the heads of the principle Departments as Professors in the University with seats on the Senate of the University. In 1912 the College was officially recognized as a College of University rank, being included for the first time in the Board of Education Volume of "Reports from those Universities, and University Colleges in Great Britain which are in receipt of grants from the Board of Education."

The buildings which are situated in Sackville Street are six storeys in height, and over an area of 6,400 square yards. The value of the site, building, and equipment of the College amounts to £370,000. The buildings and greater part of the equipment are the property of the Manchester City Council, and the annual expenditure of the City Council on the maintenance of the College constitutes the greater part of the City's contribution to the cost of University education in Manchester.

*Terms* : Four per year.

*Students* : 595.

*Budget* : The cost of maintaining the College during the financial year 1918-19 was approximately £67,000. This amount is provided partly by the City of Manchester, partly by Government Grants, private donations, and grants from neighbouring authorities.

**OFFICIALS.**

*Chancellor*.—The Rt. Hon. The Viscount Morley of Blackburn, O.M.

*Vice-Chancellor*.—Sir Henry A. Miers, M.A., D.Sc., Ph.D., F.R.S.

*Pro-Vice-Chancellors*.—Prof. R. B. Wilk, M.D., M.Sc., F.R.C.P.; Edward Fiddes, M.A.

*Dean of the Faculty of Technology*.—J. C. Maxwell Garnett, C.B.E., M.A.

*Degrees and Hoods*.—B.Sc.Tech., terra-cotta; M.Sc.Tech., terra-cotta. Ph.D. and D.Sc.

## PROFESSORS.

## Professors:

G. G. Stoney, *Mechanical Engineering*.  
 M. Walker, *Electrical Engineering*.  
 F. L. Pyman, *Technological Chemistry*.  
 E. Knecht, *Applied Chemistry*.  
 A. J. Turner, *Textile Technology*.  
 A. C. Dickie, *Architecture*.  
 W. B. Dawkins, *Mining*.  
 W. W. H. Gee, *Physics*.

## Lecturers :

H. G. Jordan, *Mechanical Engineering*.  
 P. T. Petrie           "           "  
 W. C. Popplewell   "           "  
 D. Smith             "           "  
 W. J. Walker        "           "  
 6 Assistant Lecturers, 1 Instructor and  
 an Assistant Instructor.

J. L. Langton, *Electrical Engineering*.  
 A. E. Moore           "           "  
 A. E. Clayton       "           "  
 F. Shaw             "           "  
 2 Assistant Lecturers, 1 Assistant  
 Instructor.

J. Radcliffe, *Sanitary Engineering*.  
 2 Assistant Lecturers.

## Lecturers—Continued :

J. Huebner, *Bleaching and Dyeing*.  
 J. Grant, *Chemistry of Foodstuffs*.  
 E. L. Rhead, *Metallurgy and Assaying*.  
 F. S. Sinnatt, *Fuels*.  
 L. G. Radcliffe, *Organic Chemistry*.  
 S. J. Peachey, *Applied Chemistry*.  
 F. M. Rowe, *Dyestuffs*.  
 1 Assistant Lecturer and additional  
 Assistants.  
 W. Myers, *Textile Industries*.  
 A. E. G. Brookes, *Textile Design*.  
 W. A. Hanton, *Engineering (Textile)*.  
 2 Assistant Lecturers, 1 Demonstrator,  
 6 Assistant Instructors.  
 C. W. Gamble, *Photography*.  
 R. B. Fishenden, *Engraving and  
 Printing*.  
 G. Hickling, *Paleontology*.  
 N. T. Williams, *Coal and Metal Mining*.  
 J. Prescott, *Mathematics*.  
 F. Bowman           "  
 R. Barlow            "  
 2 Assistant Lecturers.  
 A. Ferguson, *Physics*.  
 2 Demonstrators.  
 A. Kirk, *German*.

**Post-Graduate Courses.**—The College provides facilities for advanced study and research in its Departments of Mechanical Engineering, Electrical Engineering, Applied Chemistry, Municipal and Sanitary Engineering, Textile Industries, Photographic Technology, Printing, Architecture and Mining. By the award of special research scholarships to candidates of proved ability, by the appointment of additional Professors and Lecturers to conduct and supervise research, and by the provision of additional accommodation particularly in the main Departments—Mechanical Engineering, Electrical Engineering, and Applied Chemistry—of the College, the volume of research has, during the past few years, very considerably increased.

Additional facilities for post-graduate study have been provided to meet the demand from those students who have taken their degree and who are now seeking to complete their academic training for industrial appointments by post-graduate study and research in this College, and to meet the needs of those Industrial Research Associations which have recently been formed by whole industries, and when formation has resulted in a big demand for the services of experienced graduates. Organized courses of graduate study and training in the methods of research leading to the newly established degree of Ph. D., and to the degree of M.Sc.Tech., have been arranged.

Graduates may also conduct research in this College for the degree of D.Sc.

**Library.**—College of Technology Library. *Librarian* : H. Williams.

## MANGALORE.

**ST. ALOYSIUS' COLLEGE**, Edyah Hill, Mangalore. (1880.)

St. Aloysius' College is under the management of the Fathers of the Society of Jesus, and is affiliated to the Madras University as a first-grade college.

*Terms* : Two a year.

*Students* : 286.

## OFFICIAL.

*Principal*.—The Rev. C. Perazzi, S.J., D.D.

**Degree conferred.**—Bachelor of Arts.

PROFESSORS.

Rev. L. Proserpio, *English*.  
 Rev. M. N. Coelho     "  
 Rev. D. J. Fernandes     "  
 Rev. A. Ambrozzi, *History and English*.  
 Rev. J. M. Baizini, *Mathematics*.  
 Rev. N. Fermi, *Chemistry and Astronomy*.

Rev. T. Gonsalves, *Physics*.  
 Rev. G. Saldanha, *Logic, French and Latin*.  
 C. J. Varkey, *History*.  
 7 Lecturers, 3 Pandits.

**Libraries.**—

Professors' Library. *Librarian*: The Rev. J. M. Baizini.  
 Students' Library. *Librarian*: The Rev. M. N. Coelho.

**MANHATTAN (Kansas).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*.—F. D. Farrell.

**MARE ISLAND (California).**

**NAVAL OBSERVATORY, Mare Island, California. (1882.)**

*Director*.—Capt. T. J. J. See, Professor of Mathematics, U.S.N.  
 5 Assistants.

**MARINE BIOLOGICAL ASSOCIATION. See PLYMOUTH.**

**MAYAGUEZ (Porto Rico).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Agronomist*.—D. W. May.

**McMASTER UNIVERSITY. See TORONTO.**

**MEDFORD (Massachusetts).**

**TUFTS COLLEGE, Medford, Mass. (1852.)**

*Terms*: Two semesters a year.

*Students*: 1977.

OFFICIALS.

*Acting-President*.—John A. Cousens, A.B.

*Dean of School of Liberal Arts*.—F. G. Wren, A.M.

*Dean of College for Women*.—Caroline S. Davies, A.M.

*Dean of Engineering School*.—G. C. Anthony, A.M., Sc.D.

*Dean of Medical School*.—C. F. Painter, A.B., M.D.

*Dean of Dental School*.—William Rice, D.M.D.

*Vice-Dean of Medical and Dental Schools*.—Frank G. Wheatley, A.M., M.D.

*Dean of Theological School*.—L. S. McColester, S.T.D.

*Dean of Graduate School*.—C. E. Fay, A.M., Litt. D.

**Degrees conferred**.—A.B., B.S. in Chemistry, B.S. in Civil Engineering, B.S. in Electrical Engineering, B.S. in Mechanical Engineering, B.S. in Chemical Engineering, B.S. in Engineering, S.T.B., M.D., D.M.D., A.M., M.S.

PROFESSORS.

**FACULTY OF THE ASSOCIATED SCHOOLS.**

**Professors:**

C. E. Fay, *Modern Languages*.  
 L. R. Lewis, *History and Theory of Music*.  
 W. K. Denison, *Latin Language and Literature*.  
 E. C. Bolles, *English and American Literature*.  
 F. E. Seavey, *English*. [*History*.]  
 H. I. Cushman, *Homiletics*.  
 C. S. Davies (Mrs.), *English*.

**Professors—Continued:**

H. G. Mitchell, *Hebrew and Old Testament Exegesis*.  
 A. I. Andrews, *History and Public Law*.  
 L. S. McColester, *Christian Theology*.  
 C. H. Gray, *English*.  
 H. A. Wooster, *Political Science*.  
 F. W. Durkee, *Chemistry*.  
 G. C. Anthony, *Technical Drawing*.  
 F. G. Wren, *Mathematics*.  
 C. H. Chase, *Steam Engineering*.

# Professors—Continued :

F. D. Lambert, *Botany*.  
W. R. Ransom, *Mathematics*.  
E. H. Rockwell, *Structural Engineering*.  
S. L. Conner, *Railroad Engineering*.  
A. C. Lane, *Geology and Mineralogy*.  
H. V. Neal, *Zoology*.  
C. B. Skinner, *Applied Chemistry*.  
G. P. Bacon, *Physics*.

# Assistant Professors :

W. H. Reed, *Modern Languages*.  
A. H. Gilmer, *English*.  
W. F. Wyatt, *Greek*.  
E. A. Shaw, *Education*.  
C. F. Nevens, *Modern Languages*.  
J. C. Scammell, *English*.  
R. C. Givler, *Philosophy*.  
E. B. Rollins, *Electrical Engineering*.  
M. S. Munro, *Electrical Engineering*.  
H. H. Carroll, *Technical Drawing*.  
C. F. Baker, *Analytical Chemistry*.  
H. Rice, *Mathematics*.  
C. A. Adams, *Mechanics Arts*.  
E. MacNaughton, *Mechanical Engineering*.  
E. H. Wright, *Civil Engineering*. [ing.  
T. E. Mergendahl, *Mathematics*.  
W. E. Farham, *Technical Drawing*.  
D. E. Worrall, *Chemistry*.  
H. P. Burden, *Civil Engineering*.  
2 Lecturers, 27 Instructors, 19 Assistants.

# FACULTY OF THE MEDICAL SCHOOL.

## Professors :

J. L. Ames, *Theory and Practice of*  
G. A. Bates, *Histology*. [Medicine.  
W. E. Chenery, *Laryngology*.  
W. R. P. Emerson, *Children's Diseases*.  
L. V. Friedman, *Obstetrics*.  
A. Greenwood, *Ophthalmology*.  
G. W. Kaan, *Clinical Gynecology*.  
F. H. Lahey, *Clinical Surgery*.  
E. B. Lane, *Mental Diseases*.  
T. Leary, *Pathology, Bacteriology, and*  
*Medical Jurisprudence*.  
E. N. Libby, *Clinical Medicine*.  
F. H. McCrudden, *Applied Therapeutics*. [Climatology.  
E. O. Otis, *Pulmonary Diseases and*  
C. F. Painter, *Orthopedic Surgery*.  
E. M. Plummer, *Otology*.  
A. H. Ryan, *Physiology*.  
W. E. Sullivan, *Anatomy*.  
T. W. Thorndike, *Dermatology*.  
F. G. Wheatley, *Pharmacology*.  
C. M. Whitney, *Genito-Urinary Diseases*.

Post-Graduate Courses for A.M. and M.S. degrees.

Museum.—The Barnum Museum of Natural History.

Library.—Eaton Memorial Library. Librarian : Miss E. M. Hayes, A.B. Assistant Librarian : Miss B. H. Hooper, A.B.

# Associate Professors :

A. L. Chute, *Genito-Urinary Surgery*.  
W. E. Fernald, *Mental Diseases*.  
F. E. Haskins, *Pharmacology*.  
A. R. Kimpton, *Surgery*.  
W. F. Nolen, *Anatomy*.  
S. Rushmore, *Gynecology*.

# Assistant Professors :

A. E. Austin, *Clinical Medicine, Lecturer in Gastro-Intestinal Diseases*.  
E. W. Barron, *Children's Diseases*.  
A. W. George, *Röntgenology*.  
C. D. Knowlton, *Theory and Practice of Medicine*.  
O. C. Leary (Mrs.), *Pathology and Bacteriology*.  
F. P. McCarthy, *Pathology and Bacteriology*. [teriology.  
A. Myerson, *Neurology*.  
T. J. O'Brien, *Clinical Medicine*.  
A. K. Paine, *Obstetrics*.  
C. Phipps, *Clinical Medicine*.  
F. Reis, *Physiological and Biological Chemistry and Toxicology*.  
M. H. Rogers, *Orthopedic Surgery*.  
L. M. Spear, *Theory and Practice of Medicine*.  
A. W. Stearns, *Neurology*.  
C. E. Turner, *Hygiene*.  
2 Lecturers, 35 Instructors, 25 Teaching Assistants, 10 Laboratory Assistants.

# FACULTY OF THE DENTAL SCHOOL.

## Professors :

R. H. Ashley, *Chemistry*.  
G. A. Bates, *Comparative Anatomy*.  
W. G. Bridge, *Crown and Bridge Work*.  
A. L. Johnson, *Orthodontia*.  
C. M. Proctor, *Oral Surgery*.  
W. Rice, *Operative Dentistry*.

## Associate Professors :

G. C. Ainsworth, *Operative Dentistry*.

## Assistant Professors :

H. J. Baker, *Operative Dentistry*.  
H. H. Chakmakjian, *Chemistry*.  
C. W. Farrington, *Operative Dentistry*.  
W. P. Houston, *Operative Dentistry*.  
A. L. Morse, *Orthodontia*.  
R. H. Norton, *Oral Surgery and Anesthesia*.  
F. O'Meara, *Chemistry*.  
H. H. Piper, *Operative Dentistry and Instructor Dental History*.  
28 Instructors, 60 Visiting Instructors, 2 Teaching Assistants, 15 Laboratory Assistants.



## MELBOURNE (Victoria).

UNIVERSITY OF MELBOURNE, Melbourne, Victoria. (1853.)

*Terms* : Four per year.*Students* (1919): 1925.*Budget* (1918):

Receipts:	Government Grants .. ..	£29,167
	Fees .. ..	43,303
	Interest .. ..	8,197
	Other Sources .. ..	1,726

Total .. ..	£82,393
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Payments:	Salaries .. ..	£50,231
	Laboratory Expenses .. ..	4,367
	Scholarships, etc. .. ..	6,127
	Buildings and Grounds .. ..	3,063
	General Maintenance .. ..	3,602
	Other Expenses .. ..	8,558

Total .. ..	£75,948
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## OFFICIALS.

*Chancellor*.—Sir John H. MacFarland, M.A., LL.D.*Vice-Chancellor*.—Sir John Grice, B.A., LL.B.*President of the Professorial Board*.—Prof. W. A. Osborne, M.B., B.Ch., D.Sc.*Registrar*.—J. P. Bainbridge, F.C.I.S., J.P.

**Degrees conferred**.—B.A., M.A., Litt.D., B.Sc., M.Sc., D.Sc., LL.B., LL.M., LL.D., M.B., B.S., M.D., M.S., B.C.E., B.M.E., B.E.E., B.Mech.E., M.C.E., M.M.E., M.E.E., M.Mech.E., D.Eng., B.D.Sc., D.D.Sc., Mus.Bac., Mus.Doc., B.Agr.Sc., M.Agr.Sc., B.V.Sc., D.V.Sc.

Also Diplomas in Education, Analytical Chemistry, Public Health, Tropical Medicine, Mining, Metallurgy, Architecture, Science in Veterinary Science, Music, and Agriculture.

## PROFESSORS.

## FACULTY OF ARTS AND EDUCATION.

**Professors :**

- E. J. Nanson, *Mathematics, Pure and Mixed*.  
 C. A. Scutt, *Classical Philology*.  
 R. S. Wallace, *English Language and Literature*.  
 W. R. B. Gibson, *Mental and Moral Philosophy*.  
 E. Scott, *History*.  
 J. Smyth, *Education*.

**Lecturers :**

- W. Kerry, *Classics*.  
 E. W. Cornwall, *Classics*.  
 J. H. Mitchell, *Mixed Mathematics*.  
 F. I. Maurice-Carton, *French*.  
 T. J. Smith, *Logic*.  
 J. S. W. Webb, *History*.  
 E. C. W. Kelly, *Political Economy*.  
 J. McK. Stewart, *Philosophy*.  
 A. Lodewyckx, *German*.  
 C. E. Weatherburn, *Mathematics*.  
 A. T. Strong, *English*.  
 H. M. Robinson, *English*.  
 M. S. Sharman, *Teaching of Mathematics and Science*.

**Lecturers—Continued :**

- I. D. Marshall, *Teaching of English History*.  
 J. McRae, *General Method and Psychology*.  
 R. Lawson, *Teaching of Languages*.  
 4 Instructors.

## FACULTY OF LAW.

**Professor :**

- W. H. Moore, *Law*.

**Lecturers :**

- J. E. Mackey, *Equity*.  
 J. R. Maquire, *Wrongs and Procedure*.  
 R. H. Gregory, *Property in Land and Conveyancing*.  
 J. G. Latham, *Contracts and Personal Property*.

## FACULTY OF MEDICINE.

**Professors :**

- Sir H. Brookes Allen, *Pathology*.  
 W. A. Osborne, *Physiology*.  
 R. J. A. Berry, *Anatomy*.

**Lecturers :**

- Sir H. C. Maudsley, *Theory and Practice of Medicine*.  
 F. D. Bird, *Surgery*.

**Lecturers—Continued :**

- F. G. Middleton, *Anatomy*.  
 F. G. Morgan, *Pathology*.  
 G. Horne, *Obstetrics and Gynecology*.  
 C. Bage, *Therapeutics*.  
 F. W. Sinclair, *Public Health*.  
 R. J. Bull, *Bacteriology*.  
 C. H. Mollison, *Forensic Medicine*.  
 Sir J. W. Barrett, *Physiology of Special Senses*.  
 J. F. Wilkinson, *Clinical Physiology*.  
 H. A. S. Newton, *Regional and Applied Anatomy*.  
 A. V. M. Anderson, *Medical Ethics*.  
 L. A. I. Maxwell, *Anesthetics*.  
 F. L. Davies, *Anesthetics*.  
 B. L. Stanton, *Materia Medica and Pharmacy*.  
 9 Instructors.

**FACULTY OF ENGINEERING.****Professor :**

H. Payne, *Engineering*.

**Lecturers :**

- A. H. Merrin, *Mining*.  
 G. Higgins, *Civil Engineering*.  
 W. A. M. Blackett, *Architecture*.  
 J. S. Gawler, *Architecture*.  
 R. H. Alsop, *Architectural Atelier*.  
 J. T. Lupson, *Surveying*. [Director.  
 E. B. Brown, *Electrical Engineering*.  
 A. J. Higgin, *Metallurgy*.  
 W. N. Kernot, *Engineering Design and Drawing*.  
 J. A. Laing, *Concrete and Reinforced Concrete*.  
 W. Calder, *Country Roads*.  
 A. E. Callaway, *Country Roads*.  
 J. W. S. Crow, *Lubrication*.  
 2 Instructors.

**FACULTY OF VETERINARY SCIENCE.****Professor :**

H. A. Woodruff, *Veterinary Pathology*.

**Museums.**—Most of the Science Departments have Museums attached to them, particularly Pathology (15,000 specimens), Anatomy, Engineering, Botany, and Biology.

**Libraries.**—

General Library. *Librarian* : D. Ulrich, M.A.  
 Medical School Library.

**AFFILIATED INSTITUTIONS.**

Trinity College, Ormond College, Queen's College, Newman College, Australian College of Dentistry.

In addition work at the following is recognized: Melbourne Hospital, Alfred Hospital, St. Vincent's Hospital, Women's Hospital, Children's Hospital, Eye and Ear Hospital, Infectious Diseases Hospital, Hospital for the Insane, Working Men's College, Swinburne Technical College, Ballarat School of Mines, Bendigo School of Mines, College of Pharmacy.

**Lecturers :**

- J. C. Lewis, *Veterinary Anatomy and Surgery*.  
 S. S. Cameron, *Veterinary Hygiene and Dietetics*.  
 G. Sweet, *Veterinary Parasitology*.  
 E. F. J. Bordeaux, *Veterinary Medicine and Obstetrics*.  
 H. R. Seddon, *Veterinary Pathology and Bacteriology and Materia Medica*.  
 1 Instructor.

**FACULTY OF AGRICULTURE.****Professors :**

- D. O. Masson, *Chemistry*.  
 W. E. Agar, *Biology*.  
 E. W. Skeats, *Geology and Mineralogy*.  
 A. J. Ewart, *Botany and Plant Physiology*.  
 T. H. Laby, *Natural Philosophy*.

**Lecturers :**

- A. E. V. Richardson, *Agriculture*.  
 E. J. C. Rennie, *Agricultural Engineering*.  
 W. H. Green, *Chemistry*.  
 A. C. D. Rivett, *Chemistry*.  
 E. J. Hartung, "  
 G. Sweet, *Biology*.  
 E. F. J. Love, *Natural Philosophy*.  
 E. O. Hercus, "  
 W. M. Holmes, "  
 L. E. Hurley, *Histology and Human Embryology*.  
 W. J. Young, *Bio-Chemistry*.  
 H. S. Summers, *Geology*.  
 L. A. I. Maxwell, *Physiology*.  
 E. I. McLennan, *Botany*.  
 5 Instructors.

**FACULTY OF MUSIC.****Professor :**

W. A. Laver, *Music*.  
 Several part-time Assistants and Demonstrators.

**ORMOND COLLEGE**, University of Melbourne (College Reserve). (1879.)

The College is also the Theological Hall of the Presbyterian Church of Victoria, and has for that purpose an independent teaching staff. Normally students of the Theological Hall should have completed a University course in the College, but actually there have in recent years been large departures from this normal condition of affairs. Of the College resident students nine are Theological Hall students and others, five are University Arts students proceeding to the Theological Hall; three of the non-resident students are University students proceeding to the Theological Hall.

*Terms* : As those of University of Melbourne.

*Students* : Resident, 103; non-resident, 58 (1919).

*Budget* (1918):

Receipts: Fees, etc.	..	..	..	£5,644	4	7
Interest on Endowment	..	..	..	915	17	2
Total	..	..	..	£6,560	1	9
Expenditure: Salaries, etc.	..	..	..	£2,373	19	6
Repairs, etc.	..	..	..	427	6	10
Wages, Household, etc.	..	..	..	3,902	6	6
Total	..	..	..	£6,703	12	10

**OFFICIALS.**

*Master*.—David Kennedy Picken, M.A.

*Vice-Master*.—Horace William Allen, M.A.

*Acting Vice-Master*.—E. D. Ulrich, M.A.

**Degrees and Hoods** as those of University of Melbourne.

**TUTORS.****Resident :**

O. de R. Foenander, *History and Law*.

F. G. Morgan, *Pathology and Medicine*.

F. G. Middleton, *Anatomy*.

**Non-Resident :**

C. E. Weatherburn, *Mathematics and Natural Philosophy*.

**Non-Resident—Continued :**

J. McK. Stewart, *Prayers and Bible Lectures*.

F. H. Campbell, *Chemistry*.

G. V. Buchanan (Miss), *Botany and Zoology*.

I. M. Flinn (Miss), *Philosophy*.

E. Wood (Mrs.), *French and German*.

**THEOLOGICAL HALL STAFF.****OFFICIALS.**

*President*.—Rev. J. L. Rentoul, M.A., D.D.

*Secretary*.—Rev. D. S. Adam, M.A., D.D.

**PROFESSORS.****Professors :**

Rev. J. L. Rentoul, *New Testament Greek*.

Rev. D. S. Adam, *Systematic Theology and Church History*.

**Professors—Continued :**

Rev. A. Skene, *Hebrew and Old Testament* [ment.]

Rev. J. Barnaby, *Paideutics and English Bible*.

Together with the Master of Ormond College, the Chairman of the Theological Hall Committee and Sir John MacFarland (formerly Master of Ormond) constitute the Senators of the Theological Hall.

**Libraries.—**

Theological Hall Library. *Librarian* : Rev. A. Skene.

Ormond College Library. Shortly to be amalgamated in the MacFarlane Memorial Library. (Statistics not at the moment available.)

**QUEEN'S COLLEGE**, Melbourne University Reserve. (1888.)

Queen's College is an affiliated College of the University of Melbourne, Victoria.

In the constitution of the Melbourne University provision was made for four affiliated Colleges, and pieces of land of about 10 acres in size were given in trust to the Anglican, Presbyterian, Methodist, and Roman Catholic Churches for this purpose. Queen's College is the College of the Methodist Church, and is governed by a Council appointed by the Methodist Conference of Victoria and Tasmania. All resident students must be under-graduates of the University; but complete freedom of teaching and worship is allowed.

*Terms* : As in the University of Melbourne.

*Students* (1919): 88.

*Budget* (1918):

Income	..	..	..	..	..	£3,733
Expenditure	..	..	..	..	..	4,364
Endowment for Scholarships				..	..	25,000

**OFFICIALS.**

*Master*.—Rev. Edward H. Sugden, M.A., B.Sc., Litt.D.

*President of Council*.—Rev. W. Morley, D.D.

*Vice-President*.—F. J. Cato.

*Secretary*.—Rev. T. B. Reed.

*Bursar*.—W. A. Mewton.

**Degrees and Hoods** as in the University of Melbourne.

**LECTURERS.**

Rev. E. H. Sugden, *English Language and Literature*.

E. Lothian (Miss), *Classics*.

E. Wood (Mrs.), *French and German*.

I. M. Flinn (Miss), *Logic and Philosophy*.

S. T. S. Clyne, *History and Economics*.

C. M. T. Stafford, „ „

H. Hewitt, *Matriculation Subjects*.

Rev. A. E. Albiston, *Theology*.

Rev. F. J. Nance, *Hebrew*.

Rev. J. W. Grove, *Hellenistic Greek*.

E. Nelson (Miss), *Mathematics and Natural Philosophy*.

G. Buchanan (Miss), *Biology*.

F. H. Campbell, *Chemistry*.

L. E. Hurley, *Medical Subjects*.

**Museums.**

Museum of Egyptian Antiquities.

Museum of Geological Specimens.

Museum of South Sea Islands Curiosities.

**Libraries.**

General Library of about 10,000 volumes.

Special Library of original editions of the works of the Rev. John Wesley of about 400 volumes.

**NATIONAL MUSEUM**, Melbourne.

*Honorary Director*.—Sir W. Baldwin Spencer, K.C.M.G., F.R.S., D.Sc., Litt.D., Prof. of Biology in the Melbourne University.

*Curator*.—J. A. Kershaw, F.E.S.

*Paleontologist*.—F. Chapman, A.L.S.

*Mineralogist*.—P. B. Nye.

The National Museum contains the State Zoological, Palaeontological, Mineralogical and Ethnological collections.

**BOTANIC GARDENS**, Melbourne. (1846 )

*Director*.—W. R. Guilfoyle.

The National Herbarium contains the most complete collection of Australian plants in the world.



## MIDDLETOWN (Connecticut).

**WESLEYAN UNIVERSITY**, Middletown, Conn. (1831.)

*Terms* : Two semesters.

*Students* : 415.

*Budget* :

Current Expenses (1917-18)	..	..	\$246,356.70.
Productive Endowment	..	..	\$2,575,223.20.

### OFFICIALS.

*President*.—William A. Shanklin, L.H.D., LL.D.

*Vice-President*.—George M. Dutcher, Ph.D.

*Dean*.—Frank W. Nicolson, M.A.

**Degrees conferred**.—B.A., B.S., M.A., M.S.

### PROFESSORS.

#### Professors:

W. N. Rice, *Geology (Emeritus)*.  
 C. T. Winchester, *English Literature*.  
 M. B. Crawford, *Physics*.  
 A. C. Armstrong, *Philosophy*.  
 W. E. Mead, *English Language*.  
 K. P. Harrington, *Latin*.  
 F. W. Nicolson, *Latin*.  
 C. A. Tuttle, *Economics and Social Science*.  
 O. Kuhns, *Romance Languages*.  
 W. A. Heidel, *Greek*.  
 R. Dodge, *Psychology*.  
 F. E. Farley, *English Literature*.  
 W. G. Cady, *Physics*.  
 R. H. Fife, *German*.  
 G. M. Dutcher, *History*.  
 J. W. Hewitt, *Classics*.  
 E. Fauver, *Physical Education*.  
 L. A. Howland, *Mathematics*.

#### Professors—Continued:

B. H. Camp, *Mathematics*.  
 C. R. Hoover, *Chemistry*.  
 E. C. Schneider, *Biology*.

#### Associate Professors :

C. H. Conley, *Rhetoric*.  
 G. A. Hill, *Chemistry*.  
 P. H. Curtis, *German*.  
 A. Mann, jr., *Romance Languages*.  
 H. B. Goodrich, *Zoology*.  
 W. G. Foye, *Geology*.  
 H. M. Wriston, *History*.  
 H. B. Hall, *Economics*.  
 P. Burt, *History*.  
 E. S. Clark, *Romance Languages*.  
 L. P. Rice, *Economics and Social Science*.  
 W. C. Woods, *Biology*.  
 4 Instructors, 6 Assistants, 2 Lecturers, 1 Assistant Professor.

**Post-Graduate Courses**.—A few graduate students each year, to whom are offered the degrees M.A., and M.S.

**Library**.—114,000 bound volumes. *Librarian* : William J. James. M.A.

## MINNEAPOLIS (Minnesota).

**UNIVERSITY OF MINNESOTA**, Minneapolis, Minnesota. (1868.)

*Terms* : Four per year.

*Students* (1917-18) : 5,567.

### OFFICIALS.

*President*.—Marion Leroy Burton, Ph.D., D.D., LL.D.

*Registrar*.—E. B. Pierce, B.A.

*Librarian*.—J. T. Gerould.

**Degrees conferred**.—Ph.D., M.A., M.S., B.S., C.E., E.E., M.E., Architect, LL.B., M.B., M.D., Graduate in Nursing, D.D.S., E.M., Met.E., Phar.Chem., Graduate in Pharmacy, Chem.E.

**Post-Graduate Courses**.—Graduate work in all major fields of sciences, letters and humanities, agriculture, and clinical medicine. In the latter field part of the work is done at Rochester, Minnesota, with the support of the Mayo Foundation and the faculties of the Mayo Clinic.

**Institutes, etc.**—Minnesota Historical Society, St. Paul, Minnesota, with library of Minnesota Academy of Social Sciences.

## MISSOULA (Montana).

**STATE UNIVERSITY OF MONTANA**, Missoula, Montana. (1893.)

In 1913 a legislative enactment was made combining the State University (Missoula, Mont.), the State College of Agriculture and Mechanic Arts (Bozeman, Mont.), the State School of Mines, (Butte, Mont.), and the State Normal School (Dillon, Mont.) into the Greater University of Montana, under the executive control of an officer whose title is Chancellor.

*Terms* : Three regular quarters of 12 weeks each and a summer quarter, including two terms of 6 and 5 weeks respectively.

*Students* : 1,380.

*Budget* :

Maintenance .. .. .	\$250,000.
Buildings and Grounds .. .. .	\$60,000.

### OFFICIALS.

*Chancellor*.—Edward C. Elliott, Ph.D.

*President*.—Edward O. Sisson, Ph.D.

*Vice-President*.—Frederick C. Scheuch, M.E., A.C.

*Dean of Men*.—Richard H. Jesse, jr., Ph.D.

*Dean of Women*.—Mrs. K. W. Jameson, Ph.D.

*Dean of the School of Journalism*.—A. L. Stone, B.S.

*Dean of the School of Forestry*.—Dorr Skeels, B.S.

*Dean of the School of Law*.—C. H. Leaphart, A.B., A.M., LL.B.

*Dean of the School of Music*.—De Loss Smith.

*Dean of the School of Pharmacy*.—C. E. Mollet, Ph.C.

*Registrar and Secretary of the Faculty*.—James B. Speer, B.A., LL.B.

**Degrees conferred**.—B.A., B.Sc.

### PROFESSORS.

#### COLLEGE OF ARTS AND SCIENCE.

##### Professors :

H. G. Merriam, *Latin and Greek*.  
S. J. Cook, *Business Administration*.  
F. Corbin, *English*.  
A. C. Coon, *Military Science and Tac-*  
*F. Daughters, Education.* [tics.  
M. J. Elrod, *Biology*.  
R. H. Jesse, jr., *Chemistry*.  
J. E. Kirkwood, *Botany*.  
N. J. Lennes, *Mathematics*.  
P. C. Phillips, *History*.  
J. P. Rowe, *Geology*.  
F. C. Scheuch, *Modern Languages*.  
W. E. Schreiber, *Physical Education*.  
E. O. Sisson, *Education*.  
F. O. Smith, *Psychology*.  
J. H. Underwood, *Economics*.  
E. S. Whitcomb (Miss), *Home Eco-*  
*nomics*.

##### Associate Professor :

W. G. Bateman, *Chemistry*.

##### Assistant Professors :

A. W. Rimes, *Education and Psy-*  
*chology*.  
A. C. Bevan, *Biology*.  
E. F. A. Carey, *Mathematics*.  
E. Clarke (Miss), *Home Economics*.

##### Assistant Professors—Continued :

I. E. Gittings (Miss), *Physical Educa-*  
*tion*.  
P. W. Graff, *Botany*.  
J. W. Howard, *Chemistry*.  
H. S. Hughes (Miss), *English*.  
H. M. Jones, *English*.  
W. N. Jones, *Chemistry*.  
L. Leyden (Miss), *Physical Education*.  
G. F. Lussky, *Modern Languages*.  
A. S. Merrill, *Mathematics*.  
J. E. Miller, *History*.  
A. Orbeck, *English*.  
W. G. Owen, *Biology*.  
F. D. Schwalm, *Fine Arts*.  
R. N. Thompson, *Physics*.  
11 Instructors, 3 Assistants.

#### SCHOOL OF FORESTRY.

##### Professors :

D. Skeels, *Forestry*.  
T. C. Spaulding, *Forestry*.

##### Assistant Professors :

C. F. Farmer, *Forestry*.  
R. R. Fenska, "  
1 Instructor.

#### SCHOOL OF JOURNALISM.

##### Professor :

W. E. Christenson, *Journalism*.

**Assistant Professor :**

R. D. Casey, *Journalism*.  
3 Special Lecturers.

**SCHOOL OF LAW.**

**Professors :**

C. H. Leaphart, *Law*.  
W. L. Pope, *Law*.  
L. M. Simers, *Law*.  
A. N. Whitlock, *Law*.  
1 Special Lecturer.

**SCHOOL OF MUSIC.**

**Professors :**

De Loss Smith, *Music*.  
J. Swenson (Miss), *Piano*.

**Professors—Continued :**

A. H. Weisberg, *Piano*.  
1 Instructor, 2 Assistants.

**Assistant Professor :**

H. M. Gardner (Miss), *Public School Music*.  
2 Assistants.

**SCHOOL OF PHARMACY.**

**Professor :**

C. E. Mollet, *Pharmacy*.

**Assistant Professor :**

F. J. Zack, *Pharmacy*.  
2 Assistants, 1 Instructor.

**Institute.**—Biological Station, Flathead Lake, Montana.

**Libraries.**—University Library. Law Library.

**MONTREAL (Canada).**

**McGILL UNIVERSITY**, Montreal, Canada. (1821.)

*Terms :* Two a year.

*Students :* 1,356.

*Budget :* \$892,000,000.

**OFFICIALS.**

*Principal.*—General Sir Arthur Currie, LL.D.

*Vice-Principal.*—C. E. Moyse, B.A., LL.D.

*Secretary and Bursar.*—A. P. S. Glassco, B.Sc.

*Registrar.*—J. A. Nicholson, M.A., LL.D.

**Degrees conferred :**

*Degrees.*

	<i>Hoods.</i>
B.A. - - -	Hood black silk, lined with pale blue silk, and edged with white fur.
B.Sc. - - -	Hood black silk, lined with yellow silk, and edged with white fur.
B.Sc. (Agric.) - - -	Hood black silk, lined with dark green silk, and edged with white fur.
B.C.L. - - -	Hood black silk, lined with French grey silk, and edged with white fur.
LL.B. - - -	Hood black silk, lined with scarlet silk, and edged with white fur.
B.Arch. - - -	Hood black silk, lined with white silk, and edged with white fur.
Mus.Bac. - - -	Hood black silk, lined with pale mauve silk, and edged with white fur.
M.A.- - - -	Hood black silk, lined with pale blue silk.
M.Sc. - - -	Hood black silk, lined with yellow silk.
LL.M. - - -	Hood black silk, lined with scarlet silk.
M.D.- - - -	Hood scarlet cloth, lined with dark blue silk.
D.D.S. - - -	Hood scarlet cloth, lined with pink silk.
LL.D. - - -	Hood scarlet cloth, lined with white silk.
D.Litt. - - -	Hood scarlet cloth, lined with pale blue silk.
D.Sc. - - -	Hood scarlet cloth, lined with yellow silk.
D.C.L. - - -	Hood scarlet cloth, lined with French grey silk.
Mus.Doc. - - -	Hood scarlet cloth, lined with pale mauve silk.
Ph.D. - - -	Hood scarlet cloth, lined with pale green silk.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

C. E. Moyse, *English Language and Literature*.  
C. W. Colby, *History*.  
H. Walter, *Modern Languages*.  
J. Harkness, *Pure Mathematics*.

**Professors—Continued :**

W. Caldwell, *Moral Philosophy*.  
P. T. Lafleur, *Comparative Literature*.  
J. A. Dale, *Education*.  
H. C. Perrin, *Music*.  
S. Leacock, *Political Economy*.  
A. Willey, *Zoology*.

# Professors—Continued.

- C. A. B. Brockwell, *Hebrew and Semitic Languages*.  
R. F. Ruttan, *Chemistry*.  
F. E. Lloyd, *Botany*.  
S. B. Slack, *Classics*.  
A. S. Eve, *Physics*.  
J. A. Bancroft, *Geology*.  
R. du Roure, *French*.  
J. W. A. Hickson, *Logic and Metaphysics*.  
R. W. Lee, *Roman Law*.  
C. M. Derick (Miss), *Morphological Botany*.

# Associate Professors :

- N. N. Evans, *Chemistry*.  
J. C. Simpson, *Histology and Embryology*.  
C. E. Fryer, *History*.  
J. C. Hemmeon, *Economics*.  
L. King, *Physics*.  
T. R. Davies, *Mathematics*.  
A. N. Shaw, *Physics*.  
A. R. Gordon, *Hebrew*.  
V. J. Harding, *Biological and Physiological Chemistry*.  
C. Lichtenstein (Miss), *Music*.  
J. A. Gray, *Physics*.  
C. Macmillan, *English*.  
F. M. G. Johnson, *Chemistry*.

# Assistant Professors :

- J. I. Morin, *Modern Languages*.  
R. P. D. Graham, *Mineralogy*.  
W. D. Tait, *Psychology*.  
C. T. Sullivan, *Mathematics*.  
V. K. Kriebel, *Chemistry*.  
E. T. Lambert, *Modern Languages*.  
N. E. Wheeler, *Physics*.  
H. E. Reilly, "  
G. W. Latham, *English*.  
13 Lecturers, 10 Demonstrators.

# FACULTY OF APPLIED SCIENCE.

## Professors :

- F. D. Adams, *Geology and Paleontology*.  
J. B. Porter, *Mining Engineering*.  
A. Stansfield, *Metallurgy*.  
D. A. Murray, *Applied Mathematics*.  
H. M. Mackay, *Civil Engineering*.  
L. A. Herdt, *Electrical Engineering*.  
E. Brown, *Applied Mechanics and Hydraulics*.  
R. Traquair, *Architecture*.  
P. E. Nobbs, *Design*.

## Associate Professors :

- H. F. Armstrong, *Freehand Drawing and Descriptive Geometry*.  
A. R. Roberts, *Mechanical Engineering*.  
C. M. McKergow, *Mechanical Engineering*.  
C. V. Christie, *Electrical Engineering*.  
J. W. Bell, *Mining Engineering*.

## Assistant Professors :

- C. Batho, *Applied Mechanics and Mathematics*.  
H. M. Lamb, *Civil Engineering and Lecturer in Architecture*.  
E. G. Burr, *Electrical Engineering*.  
A. J. Kelly, *Surveying*.  
J. Weir, *Surveying*.  
13 Lecturers, 13 Demonstrators.

# FACULTY OF LAW.

## Professors :

- R. W. Lee, *Roman Law*.  
A. McGoun, *Civil and Municipal Law*.  
W. de M. Marler, *Civil Law*.  
E. Lafleur, *Public International Law*.  
Hon. Sir C. Davidson, *Criminal Law*.  
A. Geoffrion, *Civil Law*.  
G. W. McDougall, *Commercial and Private International Law*.  
Hon. Mr. Justice P. B. Mignault, *Legal Ethics*.  
E. Fabre Surveyer, *Civil Procedure*.  
E. E. Howard, *Commercial Law*.  
Hon. Mr. Justice, R. A. E. Green-shields, *Associate Professor of Criminal Law*.  
3 Lecturers.

# FACULTY OF MEDICINE.

## Professors :

- H. S. Birkett, *Oto-Laryngology*.  
A. D. Blackader, *Pharmacology and Therapeutics, and of Pediatrics*.  
F. G. Finley, *Medicine and Clinical Medicine*.  
H. A. Lafleur, *Medicine and Clinical Medicine*.  
G. E. Armstrong, *Surgery and Clinical Surgery*.  
T. A. Starkey, *Hygiene*.  
J. W. Stirling, *Ophthalmology*.  
C. F. Martin, *Medicine and Clinical Medicine*.  
A. B. J. Moore, *Materia Medica and Pharmacy*.  
W. W. Chipman, *Obstetrics*.  
J. A. Hutchison, *Surgery*.  
D. D. McTaggart, *Medical Jurisprudence*.  
S. E. Whitnall, *Anatomy*.  
J. Tait, *Physiology*.  
A. W. Thornton, *Crown and Bridge Work*.  
F. G. Henry, *Dental Pathology, Dental Materia Medica and Therapeutics*.  
F. H. A. Baxter, *Operative Dentistry*.  
J. B. Morrison, *Orthodontia*.  
G. S. Cameron, *Prosthetic Dentistry*.  
6 Associate Professors, 5 Assistant Professors, 8 Lecturers, 1 Demonstrator.



# FACULTY OF AGRICULTURE.

## Professors :

F. C. Harrison, *Bacteriology*.  
W. Lochhead, *Biology*.  
C. J. Lynde, *Physics*.  
J. F. Snell, *Chemistry*.

## Professors—Continued.

H. Barton, *Animal Husbandry*.  
T. G. Bunting, *Horticulture*.  
R. Summerby, *Cereal Husbandry*.  
12 Lecturers, 1 Instructor, 3 Assistants,  
1 Veterinarian, and 9 Assistants.

**Post-Graduate Courses.**—Leading to M.A., M.Sc., LL.M., D.C.L., and Ph.D.

## Museums.—

Museum of Architecture.  
Museum of Hygiene. *Director* : T. A. Starkey.  
Museum of Pathology. *Director* : Horst Oertel.  
Peter Redpath Museum of Natural History. *Hon. Curator* : A. Willey.

**University Library** of 165,660 volumes and 25,000 pamphlets. *Librarian* : G. R. Lomer, M.A., Ph.D.

## AFFILIATED INSTITUTIONS.

Acadia University, Wolfville, N.S.  
Alberta University, Edmonton.  
Mount Allison University, Sackville, N.B.  
The University of St. Francis Xavier's College, Antigonish, N.S.  
Royal Military College, Kingston.  
Congregational College of Canada, Montreal.  
Diocesan College of Montreal.  
Presbyterian College of Montreal.  
Wesleyan College of Montreal.

## UNIVERSITY OF MONTREAL, Canada. (1876.)

(Formerly Laval University Montreal Branch.)

The University, which was only a Branch of the Quebec Laval University from 1876 to 1919, received its canonical independence from Rome in 1919. It is expected that the Provincial Legislature will grant its civil independence at the next session. The denomination is Roman Catholic, and most of the Lectures are given in French.

*Terms* : Two a year.

*Students* : 4,205.

*University Budget* : Each Faculty and School has its own.

## OFFICIALS.

*Chancellor.*—His Grace Mgr. Paul Bruchési, Archbishop of Montreal.

*President.*—His Lordship Mgr. Georges Gauthier, Auxiliary Bishop to His Grace.

*General Secretary.*—Canon Émile Chartier.

Board of 12 Governors.

**Degrees conferred.**—D.D., C.L.L., L.L.L., LL.D., M.D., B.L., B.Sc., B.A., M.A., Ph.D., C.I., B.A.S., B.Arch., V.S.D., D.S.D., B.Ph., D.Ph., B.Agr.Sc., D.Agr.Sc., L.C. Also different Diplomas for the other Schools.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors :

R. Gautheron, *French Literature*.  
E. Montpetit, *Economy*.  
G. Vanier                   "  
J. B. Legacé, *History of Art*.  
N. Charbonneau, *Theory of Gregorian Chants*.  
A. Pineault, *Theory of Gregorian Chants*.  
E. Chartier, *Pedagogy*.  
L. Groulx, *History of Canada*.

### FACULTY OF MEDICINE.

#### Professors :

D. Mignault, *Anatomy*.  
E. Virolle                   "

#### Professors—Continued:

E. Latreille, *Pathological Anatomy*.  
C. St. Pierre               "  
N. Delorme, *Practical Anatomy*.  
G. Moreau               "  
A. Ferrou               "  
A. Paré               "  
G. Lefebvre               "  
R. Toupin               "  
A. Bernier, *Bacteriology*.  
F. Jeannotte               "  
H. Aubry               "  
A. Rivet, *Toxicology*.  
G. Baril               "  
H. Larouche               "  
Z. Rhéaume, *Operative Surgery*.

# Professors—Continued :

- A. Gagnon, *Operative Surgery.*
- R. Archambault, " "
- S. Boucher, *Histology.*
- A. Laurence, *Pharmacy.*
- E. Aselin, *Physiology.*
- E. Persillier-Lachapelle, *History of Medicine.*
- A. Mercier, *History of Medicine.*
- C. Valin, *Hygiene.*
- J. Baudouin, " "
- E. Fortier, *Materia Medica.*
- G. Mignoult, " "
- T. Parizeau, *Surgical Pathology.*
- B. Bourgeois, " "
- A. Lesage, *Internal Pathology.*
- D. Masson, *Applied Therapeutics.*

## FACULTY OF THEOLOGY.

### Professors :

- H. Jeannotte, *Ecclesiastical Music.*
- J. E. Dorvaux, *Canonical Law and Moral Theology.*
- A. Pasquier, *Canonical Law and Moral Theology.*
- F. Duchain, *Canonical Law and Moral Theology.*
- B. Gattet, *Holy Writing.*
- V. Jacob, " "
- L. François, *Holy Writing and French.*
- V. Many, *Hebrew.*
- L. Perrin, *Ecclesiastical History.*
- R. Neveau, " "
- R. Allard, *Diagnostic Theology.*
- F. Lelandais, *Pastoral Theology.*

## FACULTY OF LAW.

### Professors :

- V. Morin, *Administrative Law.*
- Sir A. Lacoste, *Commercial and Maritime Law.*
- A. Perrault, *Commercial and Maritime Law.*
- P. Cousineau, *Constitutional and Municipal Law.*
- Judge C. Chamilly de Lorimier, *Criminal Law.*
- S. Morin, *Criminal Law.*
- Sir H. Archambeault, *Financial, Commercial, and Industrial Legislation.*
- Hon. N. Perodeau, *Financial, Commercial, and Industrial Legislation.*
- Sir L. Jette, *Civil Law.*
- Judge P. Demers, *Civil Law.*
- Judge E. Lafontaine, *Civil Law.*
- Hon. R. Lemieux, *International Law and History of Law.*
- E. Montpetit, *Roman Law and Political Economy.*
- R. Taschereau, *Civil Procedure.*

## SCHOOL OF APPLIED SCIENCE.

- A. Pelletier, *Higher Algebra.*
- J. Poivert, *Architecture.*
- J. Haynes, *Constructional Architecture.*

# School of Applied Science—Continued :

- A. Beaugrand-Champagne, *History of Architecture.*
- P. Charton, *Topography.*
- E. Beupré, *Differential and Integral* [Calculus.
- J. Lelau, *Hydraulics.*
- L. Bourgouin, " "
- A. Quéva, " "
- A. S. Baulne, *Construction of Metals.*
- E. Dyonnet, *Design.*
- J. Haynes, " "
- E. Beupré, " "
- A. Beaugrand-Champagne, *Design.*
- A. Villeneuve, *Electricity.*
- A. Frigon, *Electrotechnics.*
- Abbe O. Maurault, *French.*
- T. Lafrenière, *Sanitary Science.*
- C. Manseau, *Analytical Geometry and Geodesy.*
- A. Fyen, *Descriptive Geometry.*
- A. Larue, " "
- E. Montpetit, *Industrial Legislation.*
- A. Fyen, *Mathematics.*
- H. Labrecque, " "
- A. Pelletier, " "
- E. Desaulniers, *Mechanics.*
- E. Dyonnet, *Modelling.*
- E. Dulieux, *Mines.*
- A. Mailhiot, " "
- A. Dollo, *Physics.*

## SCHOOL OF COMPARATIVE MEDICINE.

- T. Daubigny, *Anatomy.*
- L. J. Demers, *Pathological Anatomy.*
- O. Laroche, *Practical Anatomy.*
- C. Reid, *Chemistry of Foods.*
- W. Derome, *Physiology.*
- E. Benoît, *Materia Medica.*
- E. Persillier-Lachapelle, *Legal Medicine.*
- L. P. Lorrain, *Obstetrics.*
- D. Gagnéux, *Internal Pathology.*
- A. Dauth, *General Pathology.*
- G. Dujardin, *Veterinary Hygiene.*

## SCHOOL OF DENTAL SURGERY.

- A. Duhamel, *General Anatomy.*
- A. Beauchamp, *Anesthetics.*
- R. Hébert, *Auscultation.*
- H. Aubry, *Bacteriology.*
- J. Nolin, *Operative Dentistry.*
- L. de Guise, " "
- J. Décarie, *Histology.*
- Avocat A. Marsan, *Dental Jurisprudence.*
- A. Larose, *Materia Medica.* [dence.
- T. Lasseneur, *Radiology.*
- E. Dubau, *Dental Pathology.*
- H. Dufresne, *Physiology.*
- H. Laplante-Courville, *Physics and Chemistry.*
- J. Gendreau, *Dental Anatomy and Physiology.*
- W. Saint-Pierre, *Dental Anatomy and Physiology.*

**INSTITUTE OF AGRICULTURE**

(see *La Trappe*).

**SCHOOL OF COMMERCE.**

C. Manseau, *Commercial Algebra*.  
 P. Malone, *English*.  
 C. Manseau, *Commercial Arithmetic*.  
 P. Riou, *General Arithmetic*.  
 H. Laplante-Courville, *Chemistry*.  
 V. Doré, *Accountancy*.  
 L. Favreau, "  
 P. Malone, *Commercial Correspondence*  
 (*English*).  
 L. Lorrain, *Commercial Correspondence*  
 (*French*).  
 A. Dollo, *Design*.

**School of Commerce—Continued:**

C. Laurendeau, *Civil Law*.  
 H. Archambeault, *Commercial Law*.  
 A. Garay-Porro, *Spanish*.  
 L. Lorrain, *French*.  
 H. Laureys, *Economic Geography*.  
 L. Groulx, *Commercial History*.  
 G. Nelli, *Italian*.  
 A. Giroux, *Customs Law*.  
 V. Doré, *Commercial Operations*.  
 T. Marot, "  
 E. Vidricaire, *Commercial Operations*.  
 O. Gauthier, *Moral Philosophy*.  
 A. Dollo, *Physics*.  
 E. Fontaine, *Advertising*.  
 E. Montpetit, *Economic Science*.  
 H. Laureys, *Technology*.

**Post-Graduate Courses.**—School of Pedagogy, for teachers of Primary Education.  
 Vacation Lecturers, for the teachers of Secondary Education.

**Libraries and Librarians, etc.**—General Library, 80,000 volumes. *Librarian:*  
 Canon Emile Chartier.

Each Faculty and School has its own private library. *Librarians:* Antonio  
 Perrault (Law); Dr. Philippe Chagnon (Medicine); Rod Barthéleme Gattet, P.S.S.  
 (Divinity).

**AFFILIATED INSTITUTIONS.**

Divinity School.  
 Polytechnic (Civil Engineering and Architecture).  
 Faculty of Commerce.  
 Agricultural College.  
 School of Music.  
 School of Drawing.  
 School of Domestic Science.  
 11 Colleges for boys (High School and Arts Course).  
 Notre Dame Ladies' College.

**ÉCOLE DE PHARMACIE, UNIVERSITÉ DE MONTRÉAL, Montreal. (1906.)**

*Terms:* September to April.

*Students:* 200.

**OFFICIALS.**

*President.*—Joseph Contant, Ph.D.  
*Vice-President.*—J. E. W. Lecours.  
*Secretary-Director.*—A. J. Laurence.  
**Degrees conferred.**—Ph.B., Ph.D.

**PROFESSORS.**

J. Constant, <i>Pharmaceutical Jurisprudence</i> .	H. L. Courville, <i>Analytical Chemistry</i> .
J. E. W. Lecours, <i>Materia Medica</i> .	E. Vadboucoeur, <i>Pharmacy</i> .
A. J. Laurence, <i>Bio-Chemistry and Pharmacy</i> .	A. D. Quintin, <i>Pharmaceutical Physics</i> .
H. Lanctot, <i>Analytical Chemistry</i> .	J. Bontin, <i>Toxicology</i> .
	J. Flahault, <i>Organic Chemistry</i> .
	H. Pilon, <i>Botany</i> .

**ROYAL CANADIAN ACADEMY OF ARTS, 255, Bleury St., Montreal. (1880.)**

**Objects.**—To further the cause of Fine Arts in Canada. Comprises 30 Academicians and 47 Associates.

**OFFICIALS.**

<i>President.</i> —Homer Watson.	<i>Treasurer.</i> —G. A. Reid.
<i>Vice-President.</i> —Edward Maxwell.	<i>Secretary.</i> —E. Dyonnet.

**MORGANTOWN (West Virginia).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—J. L. Coulter.**MOSCOW (Idaho).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—E. J. Iddings.**MOUNTAIN GROVE (Missouri).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—F. W. Faurot.**MOUNT HAMILTON (California).****LICK OBSERVATORY, Mount Hamilton, Santa Clara County, California.**

The Lick Observatory is a Research Department of the University of California. James Lick's first deed of trust was executed in 1874, and the Observatory was completed and its active research work begun in 1888.

**STAFF.***Director and Astronomer.*—William Wallace Campbell.*Astronomers.*—

Richard Hawley Tucker.

William H. Wright.

Robert Grant Aitken.

Heber D. Curtis.

*Associate Astronomer.*—Joseph H. Moore.*Acting Astronomer* (Santiago, Chile).—George F. Paddock.

Three Assistants (one in Chile). Five Fellows.

*Secretary.*—Mrs. A. G. Marshall.**Publications.**—

Publications of the Lick Observatory; quarto, Vols. I. to XIII.

Lick Observatory Bulletin; quarto, Vol. X. current.

Contributions from the Lick Observatory; octavo, Nos. 1 to 5. (Discontinued.)

**Library.**—Reference and astronomical, about 8,500 volumes.

The Mills Observatory (on the summit of Cerro San Cristobal, Santiago, Chile, Dr. Paddock in charge), is a temporary branch of the Lick Observatory.

**MYSORE (India).****UNIVERSITY OF MYSORE, Mysore, India. (1916.)**

Constituent Colleges:

Maharaja's College, Mysore.

Central College, Bangalore.

Maharani's Women's College, Mysore.

College of Engineering, Bangalore.

*Terms* : Two a year—January to April, and July to December.*Students* : 737.*Budget* : The University is State-supported except for fees and endowments.

Estimated Receipts	..	..	Rs. 9,71,555
Estimated Expenditure	..	..	Rs. 8,96,087

**OFFICIALS.***Chancellor.*—Col. Sir Sri Krishnaraja Wadiyar Bahadur, G.C.S.I., His Highness the Maharaja of Mysore.*Pro-Chancellor.*—Sir Sri Kantirava Narasimharaja Wadiyar Bahadur, G.C.I.E., His Highness the Yuvaraja of Mysore.*Vice-Chancellor.*—Rajamantra Pravina, H. V. Nanjundayya, M.A., M.L., C.I.E.*Officiating Registrar.*—V. Subtahmanyadyen, B.A.



Degrees conferred :

<i>Degrees.</i>	<i>Hoods.</i>
B.A. -	Black with yellow lining.
B.Sc. -	Yellow with black silk lining.
M.A. -	Black with yellow lining and yellow border.
M.Sc. -	Yellow with black silk lining and black border.
B.T. -	Black with blue silk lining.
D.Litt. -	Sky blue.
D.Sc. -	Dark red.

PROFESSORS.

A. B. Mackintosh, <i>English.</i>	E. P. Metcalfe, <i>Physics.</i>
J. C. Rollo, "	F. L. Usher, <i>Chemistry.</i>
F. R. Sell, "	M. G. S. Rao, "
E. G. McAlpine, "	W. T. Narayana Iyengar, <i>Mathe-</i>
S. G. Hensman (Mrs.), <i>English.</i>	<i>matics.</i>
M. Hiriyanna, <i>Sanskrit.</i>	V. S. Sambasiva Iyer, <i>Geology.</i>
R. Mookerji, <i>History.</i>	C. R. Narayana Rao, <i>Zoology.</i>
K. Iyengar, "	M. A. Sampathkumaran, <i>Botany.</i>
N. S. Subba Rao, <i>Economics.</i>	4 Junior Professors, 5 Assistant Pro-
A. R. Wadia, <i>Philosophy.</i>	fessors, 5 Tutors, 6 Lecturer, 2 Visit-
S. Radhakrishnan, <i>Philosophy.</i>	ing Lecturers, 9 Demonstrators. 9
K. T. Shah, <i>Commerce.</i>	Pandits, 2 Munshis.

**Post-Graduate Courses.**—M.A. courses in Arts subjects at the Maharaja's College, Mysore, and M.Sc. courses in Science subjects at the Central College, Bangalore. Facilities are being given for post-graduate research work.

**Institutes, Museums, and Learned Societies.**—Both at Mysore and Bangalore, University Unions have been instituted and accommodated in commodious buildings. A Museum is being organized. There is a Publication Bureau to encourage the publication of original works, and an Extension Lecture Committee to organize University Extension Lectures for the benefit of the public.

**Libraries.**—In addition to the libraries attached to the several constituent Colleges, and the several class libraries, there are two libraries, the University Library at Mysore and the Oriental Library, comprising manuscripts and several valuable books on Oriental literature.

*Librarian of University Library* : N. Narasimha Moorthy, M.A., B.L.  
*Curator of Oriental Library* : R. Shama Sastry, B.A.

NASHVILLE (Tennessee).

VANDERBILT UNIVERSITY, Nashville, Tennessee. (1873.)

*Terms* : Three a year. *Students* : 1,000.  
*Budget* : \$300,000.

OFFICIALS.

*Chancellor.*—J. H. Kirkland, LL.D., D.C.L., Ph.D.  
*President.*—W. R. Cole.  
*Vice-Presidents.*—G. B. Winton, W. T. Sanders.  
*Burser.*—J. E. Hart.  
*Registrar.*—Mrs. M. W. Haggard.

**Degrees conferred.**—B.S., M.S., D.Sc., B.A., M.A., Ph.D., B.E., C.E., M.E., B.D., LL.B., M.D., Ph.G., Ph.C., D.D.S.

PROFESSORS.

COLLEGE OF ARTS AND SCIENCE.

Professors:

H. C. Tolman, *Greek Language and Literature.*  
J. Daniel, *Physics.*  
L. C. Glenn, *Professor of Geology.*  
E. Mims, *Professor of English Language and Literature.*

Professors—Continued :

B. E. Young, *Romance Languages and Literature.*  
W. L. Fleming, *History.*  
J. H. Ransom, *Chemistry.*  
G. P. Anderson, *Military Science and Tactics.*  
J. M. Buckinridge, *Chemistry.*

**Associate Professors :**

- A. M. Harris, *Public Speaking and Debate*.  
R. B. Steele, *Latin*.  
H. C. Sanborn, *Philosophy*.  
E. E. Reinke, *Biology*.  
G. W. Dyer, *Economics and Sociology*.  
G. P. Jackson, *German*.  
G. R. Mayfield, *German*.

**Assistant Professors :**

- C. M. Sarraatt, *Mathematics*.  
E. L. Johnson, *Latin and Greek*.  
W. C. Curry, *English*.  
W. P. Ott, *Mathematics*.

**SCHOOLS OF MEDICINE,  
PHARMACY, AND DENTISTRY.**
**Professors :**

- J. T. McGill, *Organic Chemistry, and Dean of the School of Pharmacy*.  
D. Eve, *Surgery and Clinical Surgery*.  
J. A. Witherspoon, *Medicine and Clinical Medicine*.  
G. H. Price, *Diseases of the Eye, Ear, Nose, and Throat*.  
W. H. Witt, *Medicine and Clinical Medicine*.  
J. T. Altman, *Obstetrics*.  
R. A. Barr, *Surgery and Clinical Surgery*.  
L. E. Burch, *Gynecology*.  
W. Litterer, jr., *Bacteriology*.  
W. A. Bryan, *Surgery, Clinical Surgery, and Oral Surgery*.  
O. H. Wilson, *Diseases of Children*.  
M. C. McGannon, *Surgery and Clinical Surgery*.  
S. S. Crockett, *Nervous and Mental Diseases*.  
J. P. Keller, *Therapeutics*.  
A. N. Hollabaugh, *Obstetrics*.  
B. F. Hambleton, *Physiology and Pharmacology*.  
J. M. King, *Dermatology and Electro-Therapeutics*.  
R. O. Tucker, *Obstetrics*.  
W. D. Haggard, *Surgery and Clinical Surgery*.  
T. H. Wood, *Diseases of the Eye, Ear, Nose, and Throat*.  
R. Caldwell, *Surgical Anatomy*.  
P. Bromberg, *Genito-Urinary Surgery*.  
M. Glasgow, *Therapeutics*.  
W. E. Hibbett, *Preventive Medicine and Hygiene*.  
G. M. Curtis, *Microscopic Anatomy*.  
B. T. Terry, *Pathology*.  
E. A. Ruddiman, *Materia Medica and Pharmacy*.  
H. W. Morgan, *Operative Dentistry*.  
J. A. Dale, *Prosthetic Dentistry, Crown and Bridge Work*.

**Professors—Continued :**

- L. G. Noel, *Clinical Dentistry and Dental Medicine*.  
R. B. Bogle, *Oral Hygiene, Radiography, and Exodontia*.  
Y. W. Haley, *Materia Medica, Therapeutics, and Anesthesia*.  
J. H. Phillips, *Dental Anatomy and Operative Technic*.

**Associate Professors :**

- D. Eve, jr., *Surgery*.  
A. W. Harris, *Nervous Diseases and Instructor in Medicine*.  
H. M. Tigert, *Gynecology*.  
W. McCabe, *Surgery*.  
O. N. Bryan, *Medicine*.  
W. A. Oughterson, *Medicine*.  
S. J. Ross, *Bacteriology, and Pathology*.  
O. A. Oliver, *Orthodontia*.

**Assistant Professors :**

- J. Witherspoon, *Medicine*.  
H. Cummins, *Microscopic Anatomy*.  
J. F. Gallagher, *Gynecology*.  
C. N. Cowden, ,,

**SCHOOL OF ENGINEERING.**
**Professors :**

- W. H. Schuerman, *Pure and Applied Mathematics*.  
C. S. Brown, *Mechanical Engineering*.

**Assistant Professor :**

- R. H. McNeilly, *Civil Engineering*.

**SCHOOL OF LAW.**
**Professors :**

- J. B. Keeble, *Law, and Dean of the School of Law*.  
W. K. McAllister, *Law*.  
E. T. Seay, *Law*.  
F. Hall, *Law*.  
W. C. Cherry, *Law*.  
T. H. Malone, ,,  
M. P. O'Connor, ,,  
J. W. Moore, ,,  
H. B. Schermerhorn, *Law*.

**Assistant Professor :**

- A. S. Dabney, *Medical Jurisprudence*.

**SCHOOL OF RELIGION.**
**Professors :**

- W. F. Tillett, *Systematic Theology, Religion*.  
O. E. Brown, *Biblical and Ecclesiastical History*.  
J. H. Stevenson, *Hebrew and Old Testament Exegesis*.  
H. B. Carre, *Biblical Theology and English Exegesis*.  
C. A. Scott, *Church History and Missions*.  
39 Instructors, Fellows, and Lecturers,  
32 Demonstrators and Assistants.

**Post-Graduate Courses.**—Leading to M.A., M.S., Ph.D., and D.Sc. degrees.

**Library.**—University Library. Contains 71,000 volumes.

**Museums.**—

Museum of Theology.

Astronomical Observatory.

**NATAL, UNIVERSITY OF.** *See* PIETERMARITZBURG.

**NEBRASKA, UNIVERSITY OF.** *See* LINCOLN.

**NEBRASKA UNIVERSITY COLLEGE OF MEDICINE.** *See* OMAHA.

**NEVADA UNIVERSITY.** *See* RENO.

## NEWARK (Delaware).

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. Hayward.

**NEW BRUNSWICK UNIVERSITY.** *See* FREDERICTON.

## NEW BRUNSWICK (New Jersey).

**RUTGERS COLLEGE.** (The State University of New Jersey.)

Founded as Queen's College, 1766.

*Students:* Men, 625; Women, 125; total in all affiliated branches, approximately 1,300.

*Terms:* Two Semesters a year.

### OFFICIALS.

*President.*—W. H. S. Demarest, D.D., LL.D.

*Dean.*—Professor Louis Bevier, Ph.D.

*Registrar.*—Luther H. Martin.

**Degrees conferred.**—B.A., Litt.B., B.Sc., M.A., M.Sc., Ph.D., C.E., E.E., M.E., Cer.A.

No particulars of Teaching Staff received.

**Post-Graduate Courses** in all Departments.

**Library.**—Voorhees Library, 102,300 volumes.

**Museums.**—Geological Museum and Departmental Collections.

**Learned Societies.**—Phi Beta Kappa.

### AFFILIATED INSTITUTIONS.

New Jersey State Experiment Station.

New Jersey State College for Women.

Summer Station, State University of New Jersey.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. G. Lipman.

## NEWCASTLE.

**ARMSTRONG COLLEGE.** *See* DURHAM.

## NEW HAVEN (Connecticut).

**YALE UNIVERSITY,** New Haven, Conn. (1701.)

*Terms:* Two per year.

*Students:* 1916-17, 2,667; 1917-18, 1,627; 1918-19, 2,051.

*Budget:* 1917-18, \$1,846,000.00.      1918-19, \$2,000,000.00.

OFFICIALS.

*President.*—Arthur Twining Hadley, Ph.D., LL.D.  
*Acting Provost.*—Rev. William Adams Brown, Ph.D., D.D.  
*Treasurer.*—George Parmly Day, M.A.  
*Bursar.*—Frederic B. Johnson, B.A.  
*Secretary.*—Rev. Anson Phelps Stokes, D.D.  
*Assistant Secretary.*—Minott A. Osborn, M.A.  
*Chairman of the Committee on Admission.*—Robert N. Corwin, Ph.D.

YALE COLLEGE.

*Dean.*—Frederick S. Jones, LL.D.  
*Registrar.*—A. K. Merritt, B.A.

SHEFFIELD SCIENTIFIC SCHOOL.

*Director.*—Russell H. Chittenden, Ph.D., LL.D., Sc.D.  
*Registrar.*—Loomis Havemeyer, Ph.D.

THE GRADUATE SCHOOL.

*Dean.*—Wilbur L. Cross, Ph.D.

THE SCHOOL OF MEDICINE.

*Dean.*—George Blumer, M.D.

THE SCHOOL OF RELIGION.

*Dean.*—Rev. Charles R. Brown, D.D., LL.D.

THE SCHOOL OF LAW.

*Dean.*—Thomas W. Swan, M.A., LL.B.

THE SCHOOL OF THE FINE ARTS.

*Dean.*—William S. Kendall, M.A., N.A.

THE SCHOOL OF MUSIC.

*Dean.*—Horatio Parker, M.A., Mus.D.

THE SCHOOL OF FORESTRY.

*Dean.*—James W. Toumey, M.S., M.A.

UNIVERSITY LIBRARY.

*Librarian.*—Andrew Keogh, M.A.

**Degrees and Hoods.**—The University colour (bright blue, similar to Oxford blue, combined with the following universal colours. B.A., B.S., Ph.B., M.S., gold-yellow; C.E., gold-yellow; M.E., gold yellow; E.M., gold-yellow; E.E., gold-yellow; Met.E., gold-yellow; M.A., white; Ph.D., dark blue; B.F.A., brown; Mus.B., pink; M.F., russet; M.D., green; LL.B., purple; LL.M., purple; D.C.L., purple; Jur.D., purple; B.D., scarlet.

*Honorary Degrees.*—D.D., scarlet; Jur.D., purple; M.A., white; Sc.D., gold-yellow; Litt.D., white; LL.D., purple; Mus.D., pink.

PROFESSORS.

FACULTY OF ARTS.

Professors :

W. C. Abbott, *History*.  
 T. S. Adams, *Political Economy*.  
 C. McL. Andrews, *American History*.  
 R. P. Angier, *Psychology*.  
 W. B. Bailey, *Practical Philanthropy*.  
 C. M. Bakewell, *Philosophy*.  
 H. Bingham, *Latin-American History*.  
 A. L. Bishop, *Business Administration*.

Professors—Continued :

C. C. Clarke, *French*.  
 Rev. A. T. Clay, *Assyriology and Babylonian Literature*.  
 A. S. Cook, *English Language and Literature*.  
 R. N. Corwin, *German*.  
 W. L. Cross, *English*.  
 C. Day, *Economic History*.  
 G. M. Duncan, *Logic and Metaphysics*.



**Professors—Continued :**

- F. R. Fairchild, *Political Economy*.  
 H. W. Farnam, *Economics*.  
 M. Farrand, *History*.  
 I. Fisher, *Political Economy*.  
 T. D. Goodell, *Greek Language and Literature*.  
 G. Gruener, *German*.  
 A. M. Harmon, *Greek and Latin*.  
 G. L. Hendrickson, *Latin and Greek Literature*.  
 E. W. Hopkins, *Sanskrit and Comparative Philology*.  
 A. Johnson, *American History*.  
 A. G. Keller, *Science of Society*.  
 H. R. Lang, *Romance Languages and Literature*.  
 C. M. Lewis, *English Literature*.  
 F. B. Luquiens, *Spanish*.  
 C. W. Mendell, *Latin and Greek*.  
 G. H. Nettleton, *English*.  
 W. L. Phelps, *English Literature*.  
 H. McL. Reynolds, *Greek Language and Literature*.  
 A. K. Rogers, *Philosophy*.  
 C. Seymour, *History*.  
 C. B. Tinker, *English Literature*.  
 C. C. Torrey, *Semitic Languages*.  
 F. M. Warren, *Modern Languages*.  
 J. C. Adams, *English*.  
 W. G. Anderson, *Gymnasium*.  
 H. S. Canby, *English*.  
 H. A. Farr, *German*.  
 E. Huntington, *Geography*.  
 A. Keogh, *Bibliography*.

**Assistant Professors:**

- K. I. Asakawa, *History of Japanese Civilization*.  
 P. V. C. Baur, *Classical Archeology*.  
 C. A. A. Bennett, *Philosophy*.  
 J. M. Berdan, *English*.  
 P. W. Bidwell, *Economics*.  
 C. F. T. Brooke, *English*.  
 E. H. Cameron, *Education*.  
 A. H. Corley, *Spanish*.  
 J. R. Crawford, *English*.  
 W. H. Durham, *English*.  
 E. S. Furniss, *Political Economy*.  
 R. H. Gabriel, *History*.  
 R. H. George, "  
 C. H. Haring, "  
 H. G. Hayes, *Political Economy*.  
 S. B. Hemingway, *English*.  
 R. T. Hill, *French*.  
 H. M. Hubbell, *Greek and Latin*.  
 J. W. D. Ingersoll, *Latin*.  
 R. S. Kirby, *Drawing and Descriptive Geometry*.  
 G. G. MacCurdy, *Prehistoric Archeology*.  
 L. Mason, *English*.  
 S. K. Mitchell, *History*.  
 G. R. Montgomery, *French*.

**Assistant Professors—Continued :**

- F. E. Pierce, *English*.  
 F. W. Pitman, *History*.  
 E. B. Reed, *English*.  
 E. E. Robinson, *History*.  
 E. A. Saliers, *Accounting*.  
 C. F. Schreiber, *German*.  
 R. B. Westerfield, *Political Economy*.  
 F. W. Williams, *Modern Oriental History*.

**FACULTY OF SCIENCE.**

**Professors :**

- B. B. Boltwood, *Radio-Chemistry*.  
 L. P. Breckenridge, *Mechanical Engineering*.  
 E. W. Brown, *Mathematics*.  
 H. A. Bumstead, *Physics*.  
 W. R. Coe, *Biology*.  
 A. W. Evans, *Botany*.  
 H. W. Foote, *Physical Chemistry*.  
 H. E. Gregory, *Geology*.  
 T. B. Johnson, *Organic Chemistry*.  
 J. Johnston, *Chemistry*.  
 R. S. Lull, *Vertebrate Paleontology*.  
 C. H. Mathewson, *Metallurgy and Metallography*.  
 G. E. Nichols, *Botany*.  
 E. F. Nichols, *Physics*.  
 A. Petrunkevitch, *Zoology*.  
 J. Pierpont, *Mathematics*.  
 L. V. Pirsson, *Physical Geology*.  
 C. Schuchert, *Paleontology and Historical Geology*.  
 C. F. Scott, *Electrical Engineering*.  
 P. F. Smith, *Mathematics*.  
 J. C. Tracy, *Civil Engineering*.  
 C. J. Tilder, *Engineering Mechanics*.  
 H. L. Wells, *Analytical Chemistry*.  
 L. L. Woodruff, *Biology*.  
 J. Zeleny, *Physics*.  
 Colonel R. E. D. Hoyle, *Military Science and Tactics*.

**Assistant Professors :**

- Major J. T. Bachman, *Military Science and Tactics*.  
 B. A. Baitsell, *Biology*.  
 S. E. Barney, *Civil Engineering*.  
 A. M. Bateman, *Geology*.  
 F. E. Beach, *Physics*.  
 C. T. Bishop, *Structural Engineering*.  
 H. V. Bozell, *Electrical Engineering*.  
 P. E. Browning, *Chemistry*.  
 J. P. Buwalda, *Geology*.  
 C. S. Farnham, *Civil Engineering*.  
 W. E. Ford, *Mineralogy*.  
 H. Hibbert, *Chemistry*.  
 A. J. Hill, *Chemistry*.  
 Major S. L. Erwin, *Military Science and Tactics*.  
 W. B. Kirkham, *Biology*.  
 A. F. Kovarik, *Physics*.

### Assistant Professors—Continued :

- D. A. Kreider, *Physics*.  
H. Laurens, *Biology*.  
E. H. Lockwood, *Mechanical Engineering*.  
W. R. Longley, *Mathematics*.  
B. S. McFarland, *Chemistry*.  
E. J. Miles, *Mathematics*.  
L. W. W. Morrow, *Electrical Engineering*.  
Major E. B. Murray, *Military Science and Tactics*.  
L. Page, *Physics*.  
A. Phillips, *Metallurgy*.  
B. Sexton, *Chemistry*.  
H. L. Seward, *Mechanical Engineering*.  
W. K. Shepard, *Strength of Materials*.  
R. H. Suttie, *Civil Engineering*.  
J. I. Tracey, *Mathematics*.  
H. M. Turner, *Electrical Engineering*.  
H. S. Uhler, *Physics*.  
R. G. Van Name, *Chemistry*.  
P. T. Walden  
E. O. Waters, *Machine Design*.  
L. P. Wheeler, *Physics*.  
W. A. Wilson, *Mathematics*.  
G. F. Wittig, *Electrical Engineering*.  
W. J. Wohlenberg, *Mechanical Engineering*.

### SCHOOL OF MEDICINE.

#### Professors :

- G. Blumer, *Theory and Practice of Medicine*.  
R. H. Chittenden, *Physiological Chemistry*.  
J. W. Churchman, *Surgery*.  
H. B. Ferris, *Anatomy*.  
J. M. Flint, *Principles and Practice of Surgery*.  
A. L. Gesell, *Child Hygiene*.  
R. G. Harrison, *Comparative Anatomy*.  
Y. Henderson, *Physiology*.  
L. B. Mendel, *Physiological Chemistry*.  
O. T. Osborne, *Therapeutics*.  
J. M. Slemmons, *Obstetrics and Gynecology*.  
F. P. Underhill, *Pathological Chemistry*.  
C. E. A. Winslow, *Public Health*.  
M. C. Winternitz, *Pathology*.  
A. N. Alling, *Ophthalmology*.  
J. C. Greenway, *University Health*.  
R. A. McDonnell, *Dermatology*.  
M. Mailhouse, *Neurology*.  
F. N. Sperry, *Laryngology*.  
H. L. Swain, *Otology*.  
F. W. Verdi, *Surgery*.

#### Assistant Professors :

- H. G. Barbour, *Pharmacology*.  
H. S. Burr, *Anatomy*.  
H. S. Colwell, *University Health*.  
R. J. Cook, *Surgery*.  
W. E. Hartshorn, *Surgery*.

### Assistant Professors—Continued :

- J. A. Honeij, *Medicine*.  
A. H. Morse, *Obstetrics and Gynecology*.  
A. L. Prince, *Physiology*.  
L. F. Rettger, *Bacteriology and Hygiene*.  
O. F. Rogers, *University Health*.  
G. H. Smith, *Bacteriology*.  
W. Tileston, *Medicine*.

### SCHOOL OF LAW.

#### Professors :

- W. T. Barbour, *Equity and Jurisprudence*.  
J. K. Beach, *Mercantile Law and Admiralty Jurisprudence*.  
E. M. Borchard, *Law*.  
A. L. Corbin, *Law*.  
J. W. Edgerton, *Law*.  
E. B. Gager, *General Jurisprudence*.  
E. G. Lorenzen, *Roman Law and Comparative Jurisprudence*.  
E. M. Morgan, *Law*.  
H. W. Rogers  
T. W. Swan, *Testamentary Law*.  
W. H. Taft, *Constitutional Law*.  
E. S. Thurston, *Law*.  
G. D. Watrous  
J. Wurts, *English Common Law*.

#### Assistant Professors :

- C. E. Clark, *Law*.  
G. E. Woodbine, *Law*.

### SCHOOL OF FORESTRY.

#### Professors :

- R. C. Bryant, *Lumbering*.  
H. H. Chapman, *Forest Management*.  
R. C. Hawley, *Forestry*.  
S. J. Record, *Forest Products*.  
J. W. Toumey, *Silviculture*.  
G. Pinchot, *Forestry*.

#### Assistant Professor :

- H. N. Whitford, *Tropical Forestry*.

### SCHOOL OF RELIGION.

#### Professors :

- Rev. B. W. Bacon, *New Testament Criticism and Interpretation*.  
Rev. H. P. Beach, *Theory and Practice of Missions*.  
C. F. Kent, *Biblical Literature*.  
Rev. D. C. Macintosh, *Theology*.  
Rev. F. C. Porter, *Biblical Theology*.  
E. H. Sneath, *Philosophy of Religion and Religious Education*.  
Rev. H. H. Tweedy, *Practical Theology*.  
W. Walker, *Ecclesiastical History*.  
Rev. L. A. Weigle, *Christian Nurture*.  
H. B. Wright, *Christian Methods*.

#### Assistant Professors :

- Rev. J. C. Archer, *Missions*.  
Rev. G. Dahl, *Old Testament Literature*.  
Rev. B. S. Winchester, *Religious Education*.

**SCHOOL OF FINE ARTS.**

**Professors :**

H. B. Jepson, *Applied Music*.  
W. S. Kendall, *Painting and Design*.  
E. V. Meeks, *Architecture*.  
H. Parker, *Theory of Music*.  
D. S. Smith, *Music*.

**Professors—Continued :**

E. C. Taylor, *Drawing*.

**Assistant Professors :**

H. Knight, *Applied Music*.  
A. K. Porter, *History of Art*.  
I. Troostwyk, *Applied Music*.

**Post-Graduate Courses.**—Courses of Study in the following Departments are offered by the Graduate School.

**A.—Language, Literature, and the Fine Arts :**

Classical Philology and Archeology, Indo-Iranian Philology, Comparative Philology, and Linguistics.  
Semitic and Biblical Languages, Literature, and History.  
Romance Languages and Literatures.  
Germanic Languages and Literatures.  
English Language and Literature.  
Fine Arts: History and Criticism.  
Unclassified Courses.

**B.—Social and Political Science, History, Philosophy, Psychology, and Education :**

Social and Political Science.  
History.  
Philosophy, Psychology, and Education.

**C.—Mathematics and the Physical and Natural Sciences :**

Mathematics, Physics, Chemistry, Botany, Zoology and Comparative Anatomy, Physiology, Physiological Chemistry, Pathology, Pharmacology, and Experimental Medicine.  
Bacteriology and Public Health.  
The Geological Sciences.

**D.—Engineering :**

Civil Engineering, Electrical Engineering, Mechanical Engineering, Mining Engineering and Metallurgy, Mechanics, and Clinical Engineering.

The degree of Bachelor of Philosophy, formerly granted by the Sheffield Scientific School for a three-year course, is now given only in Yale College after a four-year course, to students pursuing a somewhat different course of study than that prescribed for the old Bachelor of Arts degree. The study of Latin, but not necessarily of Greek, is still required for the Bachelor of Arts degree.

The Sheffield Scientific School course has been increased to four years in length, and now leads to the degree of Bachelor of Science. The " Undergraduate Schools " therefore give three degrees, B.A., or Ph.B. in Yale College; B.S. in the Scientific School. All require four years course.

**Museums.—**

Peabody Museum. *Curators* : W. R. Coe, Ph.D., Zoology; E. S. Dana, Ph.D., Mineralogy; G. F. Eaton, Ph.D., Osteology; G. G. MacCury, Ph.D., Anthropology; C. Schuchert, LL.D., Geology; R. S. Lull, Ph.D., Vertebrate Paleontology.

South American Expeditions and Collections. *Director* : H. Bingham, Ph.D., Litt.D.

Many valuable Art Collections.

**Libraries.**—The total number of books in the various libraries of the University exceeds 1,100,000.

The University Library contains 950,000 volumes and many valuable manuscripts. There are 37 special libraries.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. H. Jenkins.

**NEWMHAM COLLEGE. See CAMBRIDGE.**

**NEW ORLEANS (Louisiana).**

**TULANE UNIVERSITY OF LOUISIANA.** No particulars received.

**SUGAR STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—W. R. Dodson.

**NEWPORT (Shropshire).****HARPER ADAMS AGRICULTURAL COLLEGE**, Newport, Salop. (1901.)

The work of the College comprises:

- (a) The training of students, men and women, for agricultural careers, and the holding of Nature Study Courses for Teachers.
- (b) Farm Experimental Work.
- (c) Advisory work for the benefit of farmers and others in the counties of Salop, Stafford and Warwick.

The College is the centre for Higher Agricultural Education for the Board of Agriculture, West Midland Province, comprising Shropshire, Staffordshire, and Warwickshire.

As the Experimental Centre for these counties a special feature of the College is the demonstrations held on the College Farm for farmers, who attend in large numbers.

The Poultry Section includes the largest Laying Trials in this country, and about 1,200 birds are under annual trial. The Poultry Conference extending over several days are attended by Poultry Keepers from all parts of the country.

*Terms* : Three per year.*Students* : 100 to 120.

*Budget* : Grants are made by the Board of Agriculture and the County Councils of Shropshire, Staffordshire, and Warwickshire.

**OFFICIALS.**

Chairman of Governing Body.

Board of Governors appointed by—

- (a) County Councils of Salop, Stafford, and Warwick.
- (b) University of Birmingham.
- (c) Royal Agricultural Society.
- (d) Co-optated, representing Trustees.

**Degrees.**—Diploma in Agriculture comprising a three-year course. Certificate in Agriculture comprising a two-year course.

**STAFF.***Principal.*—P. Hedworth Foulkes, B.Sc., F.E.S.**Lecturers :**J. C. Brown, *Agriculture*.

R. C. Andrew

J. C. Urquhart, *Agricultural Chemistry*.H. Thompson, *Chemistry*.A. Roebuck, *Botany*.W. T. Wilson, *Veterinary*.

8 Instructors.

**Post-Graduate Courses.**—Courses are arranged for those who have completed the Diploma in special branches—Agricultural Chemistry, Botany, and practical work in connection with special investigations on the College Farm.

**NEWTON ABBOT (Devon).****SEALE HAYNE AGRICULTURAL COLLEGE**, Newton Abbot, Devon. (1914.)*Terms* : Four per year.*Students* : 100.**OFFICIAL.***Principal.*—D. R. Edwardes-Ker, O.B.E., M.A., B.Sc.

**Degrees conferred.**—College Diploma and Certificate in Agriculture or Horticulture.

**LECTURERS.**P. A. McWilliam, *Head of Agric. Department*.E. W. Fenton, *Head of Botanical Dept.*T. J. Shaw, *Agriculture*.C. T. Mackintosh, *Fruit and Vegetable Growing*.C. Crosse, *Poultry*.N. F. Richardson, *Agric. Booking*.



## NEW YORK.

COLUMBIA UNIVERSITY, New York City. (1754.)

*Sessions* : Three per year.*Students* : 26,203; including 9,539 in Summer Session, and 8,460 in Extension Teaching.

## OFFICIALS.

*President*.—N. Murray Butler, Ph.D., Jur.D., LL.D., Litt.D.*Secretary*.—F. D. Faekenthal, A.B.*Acting Registrar*.—Edward J. Grant.*Bursar*.—C. S. Danielson.*Principal of Horace Manor School*.—H. C. Pearson.*Principal of Horace Manor School for Boys*.—V. Prettyman.**Degrees conferred**.—A.B., A.M., LL.B., LL.M., Litt.B., B.Arch., M.B., Ch.E., C.E., E.E., E.M., Ph.D., Phar.D., D.D.S., Mech.E., Met.E.

## PROFESSORS.

COLUMBIA, BARNARD, AND  
TEACHERS COLLEGES.**Professors :**R. J. H. Gottheil, *Rabbinical Literature and the Semitic Languages*.E. D. Perry, *Greek*.W. A. Dunning, *History and Political Philosophy*.A. V. Williams-Jackson, *Indo-Iranian Languages*.B. Matthews, *Dramatic Literature*.H. A. Todd, *Romance Philology*.F. H. Giddings, *Sociology and the History of Civilization*.J. Chidester Egbert, *Latin*.F. T. Baker, *English Language and Literature*.J. E. Russell, *Education*.F. M. McMurry, *Elementary Education*.P. Monroe, *History of Education, Director of School of Education*.W. P. Trent, *English Literature*.N. G. McCrea, *Latin Language and Literature*.G. Lodge, *Latin and Greek*.C. H. Young, *Greek, Archeology*.T. D. Wood, *Physical Education*.W. T. Brewster, *English*.G. C. D. Odell, *English*.C. Knapp, *Classical Philology*.J. D. Prince, *Slavonic Languages*.M. H. Saville, *American Archeology*.G. L. Meylan, *Physical Education*.J. B. Fletcher, *Comparative Literature*.A. W. Dow, *Fine Arts*.W. R. Shepherd, *History*.

J. T. Shotwell

V. G. Simkhovitch, *Economic History*.A. H. Thorndike, *English*.H. Johnson, *History*.M. A. Nutting (Miss), *Nursing*.W. W. Lawrence, *English*.G. D. Strayer, *Educational Administration*.**Professors—Continued :**J. Erskine, *English*.R. Weeks, *Romance Philology*.V. C. Gildersleeve (Miss), *English*.G. P. Krapp, *English*.F. G. Moore, *Latin*.F. G. Bonser, *Education*.C. T. McFarlane, *Geography*.C. Sears Baldwin, *Rhetoric and English Composition*.W. H. Kilpatrick, *Education*.W. H. Hall, *Choral and Church Music*.H. L. McBain, *Municipal Science and Administration*.W. A. Boring, *Design*.F. De Onis, *Spanish Literature*.C. D. Hazen, *History*.R. C. McCrea, *Economics*.D. Snedden, *Education*.H. Parker Willis, *Banking*.W. C. Bagley, *Education*.

O. W. Caldwell

A. D. Dean

W. H. Carpenter, *Germanic Philology*.R. H. Montgomery, *Accounting*.C. J. H. Hayes, *History*.D. D. Johnson, *Physiography*.Lt.-Col. A. R. Edwards, *Military Science and Tactics*.A. Le Braz, *French Literature*.W. F. Ogburn, *Sociology*.J. R. Smith, *Economic Geography*.**Associate Professors :**C. H. Farnsworth, *School Music*.E. W. Bagster-Collins, *German*.L. A. Loiseaux, *French*.A. F. J. Remy, *Germanic Philology*.Grace A. Hubbard (Miss), *English*.D. G. Mason, *Music*.W. A. Braun, *German Languages and Literatures*.J. L. Gerig, *Celtic*.R. L. Schuyler, *History*.

### Associate Professors—Continued :

La Rue Van Hook, *Classical Philology*.  
 Anna M. Cooley (Miss), *Household Arts*.  
 P. S. Hill (Miss), *Kindergarten Education*.  
 M. D. Swartz Rose (Mrs.), *Household Arts*.  
 M. B. Van Arsdale (Miss), *Household Arts*.  
 E. E. Agger, *Economics*.  
 R. E. Chaddock, *Statistics*.  
 D. S. Muzzey, *History*.  
 T. H. Briggs, *Education*.  
 H. A. E. Chandler, *Economics*.  
 A. G. H. Spiers, *French*.  
 R. M. Haig, *Business Organization*.  
 N. L. Englehardt, *Education*.  
 F. W. Johnson  
 J. F. Williams, *Physical Education*.  
 H. R. Sterves, *English*.  
 E. H. Wright     "  
 F. A. Patterson   "  
 H. M. Ayres       "

### Assistant Professors :

H. T. Vulte, *Household Arts*.  
 A. De V. Tassin, *English*.  
 J. Fales (Miss), *Household Arts*.  
 A. J. Latham (Miss), *Oral English*.  
 S. O. Miller, *Drawing*.  
 A. A. Tenney, *Sociology*.  
 A. Bement, *Fine Arts*.  
 G. A. Cornell (Miss), *Fine Arts*.  
 W. Goodsell, *Education*.  
 G. M. Hirst (Miss), *Classical Philology*.  
 T. H. Harrington, *Drawing*.  
 F. W. J. Heuser, *Germanic Languages and Literatures*.  
 E. M. Sait, *Politics*.  
 R. Stevens, *Secondary Education*.  
 E. H. Sturtevant, *Classical Philology*.  
 A. Abbott, *English*.  
 B. R. Andrews, *Household Arts*.  
 A. W. Goodrich (Miss), *Nursing and Health*.  
 H. F. Muller, *French*.  
 D. Bigongiari, *Italian*.  
 E. C. Cook (Miss), *English*.  
 W. Haller, *English*.  
 C. M. Howard (Miss), *English*.  
 J. H. H. Lyon, *English*.  
 C. M. Winchell (Miss), *Household Arts*.  
 R. B. Kester, *Accounting*.  
 H. H. L. Schulze, *Germanic Languages and Literatures*.  
 E. S. Elliott, *Physical Education*.  
 B. Kendrick, *History*.  
 E. H. Gunther (Miss), *Household Arts*.  
 A. A. Meras, *French*.  
 P. de Bacourt, *French*.

### Assistant Professors—Continued :

E. J. Hutchinson (Miss), *Economics*.  
 A. W. Ballard (Miss), *French*.  
 J. M. Gambrill, *History*.  
 D. R. Fox, *History*.  
 H. Lyon, *Finance*.  
 M. A. Huttman (Miss), *History*.  
 T. W. Van Metre, *Transportation*.  
 D. S. Fansler, *English*.  
 T. L. Kelley, *Education*.  
 K. C. Reiley (Miss), *Greek and Latin*.  
 W. Spohr (Miss), *Household Arts*.  
 I. M. Stewart (Miss), *Nursing and Health*.  
 M. R. Trabue, *Education*.  
 E. K. Fretwell, *Education*.  
 L. S. Hollingworth (Mrs.), *Education*.  
 W. A. McCall, *Education*.  
 E. H. Resiner     "  
 M. Carney (Miss), *Rural Education*.  
 B. Larson (Miss), *Physical Education*.  
 A. R. Weyman (Miss)   "  
 Major F. R. McLean, *Military Science and Tactics*.  
 Capt. A. G. Merry, *Military Science and Tactics*.  
 C. T. Martin, *Fine Arts*.  
 L. Tallman (Miss), *Religious Education*.

### FACULTIES OF POLITICAL SCIENCE, PHILOSOPHY, AND PURE SCIENCE.

#### Professors :

E. R. A. Seligman, *Political Economy*.  
 H. F. Osborn, *Zoology*.  
 E. B. Wilson     "  
 T. S. Fiske, *Mathematics*.  
 H. Jacoby, *Astronomy*.  
 F. N. Cole, *Mathematics*.  
 B. Dean, *Vertebrate Zoology*.  
 F. Boas, *Anthropology*.  
 J. F. Woodhull, *Physical Science*.  
 H. G. Lord, *Philosophy*.  
 M. T. Bogert, *Organic Chemistry*.  
 J. L. R. Morgan, *Physical Chemistry*.  
 H. E. Crampton, *Zoology*.  
 E. L. Thorndike, *Educational Psychology*.  
 D. E. Smith, *Mathematics*.  
 W. J. Gies, *Biological Chemistry*.  
 H. R. Seager, *Political Economy*.  
 H. L. Moore     "  
 F. J. E. Woodbridge, *Philosophy*.  
 F. Adler, *Social and Political Ethics*.  
 H. M. Richards, *Botany*.  
 C. J. Keyser, *Mathematics*.  
 M. A. Bigelow, *Biology* (Director of the School of Practical Arts).  
 T. H. Morgan, *Experimental Zoology*.  
 C. L. Poor, *Celestial Mechanics*.  
 J. Dewey, *Philosophy*.  
 A. P. Wills, *Mathematical Physics*.

**Professors—Continued :**

R. S. Woodworth, *Psychology*.  
H. B. Mitchell, *Mathematics*.  
E. Kasner  
G. B. Pegram, *Physics*.  
C. P. Berkey, *Geology*.  
W. B. Fite, *Mathematics*.  
H. E. Hawkes, *Mathematics*.  
G. V. Wendell, *Physics*.  
R. A. Harper, *Botany*.  
A. Smith, *Chemistry*.  
J. B. Clark, *Political Economy*.  
J. F. Kemp, *Geology*.  
B. Dudes, *Physics*.

**Associate Professors :**

M. E. Maltby (Miss), *Physics*.  
W. P. Montague, *Philosophy*.  
J. H. McGregor, *Zoology*.  
C. C. Curtis, *Botany*.  
M. Reimer (Miss), *Chemistry*.  
A. L. Jones, *Philosophy*.  
C. B. Upton, *Mathematics*.  
H. T. Beans, *Chemistry*.  
T. B. Freas  
W. T. Bush, *Philosophy*.  
W. B. Pitkin  
I. H. Ogilvie (Miss), *Geology*.  
J. M. Nelson, *Organic Chemistry*.  
H. L. Hollingworth, *Psychology*.  
J. P. C. Southall, *Physics*.  
J. Kendall, *Chemistry*.  
J. Hostmann

**Assistant Professors :**

T. E. Hazen, *Botany*.  
G. W. Mullins, *Mathematics*.  
H. A. Ruger, *Psychology*.  
L. P. Siceloff, *Mathematics*.  
J. E. Zanetti, *Chemistry*.  
H. W. Webb, *Physics*.  
H. A. Fales, *Chemistry*.  
J. Broadhurst (Miss), *Biology*.  
C. D. Carpenter, *Chemistry*.  
M. T. Whitley (Miss), *Educational Psychology*.  
W. K. Gregory, *Vertebrate Paleontology*.  
H. W. Farwell, *Physics*.  
L. H. Gregory (Miss), *Zoology*.  
E. Keller (Miss), *Chemistry*.  
J. J. Coss, *Philosophy*.  
A. T. Poffenberger, jr., *Psychology*.  
W. L. Severinghaus, *Physics*.

**SCHOOL OF MEDICINE, DENTISTRY,  
AND PHARMACY.**

**Professors :**

G. S. Huntington, *Anatomy*.  
F. S. Lee, *Physiology*.  
L. E. Holt, *Diseases of Children*.  
G. N. Calkins, *Protozoology*.  
J. A. Miller, *Clinical Medicine*.  
A. H. Knapp, *Ophthalmology*.  
F. C. Wood, *Cancer Research*.

**Professors—Continued :**

W. E. Studdiford, *Obstetrics and Gynecology*.  
H. H. Rusby, *Materia Medica*.  
G. C. Diekman, *Pharmacy*.  
G. R. Lockwood  
W. K. Draper  
Van H. Norrie  
L. W. Hotchkiss, *Clinical Surgery*.  
J. B. Walker  
C. N. Dowd  
E. M. Evans, *Clinical Medicine*.  
C. H. Peck, *Clinical Surgery*.  
H. V. Army, *Chemistry*.  
W. T. Longcope, *Practice of Medicine*.  
J. A. Fordyce, *Dermatology and Syphilology*.  
H. Zinsser, *Bacteriology*.  
F. Tilney, *Neurology and Neuro-Anatomy*.  
C. G. Coakley, *Laryngology and Otology*.  
W. A. Holden, *Clinical Ophthalmology*.  
H. St. C. Pace, *Commercial Pharmacy*.  
J. B. Squier, *Urology*.  
H. S. Dunning, *Oral Surgery*.  
H. W. Gillett, *Theory and Practice of Dentistry*.

A. H. Merritt, *Oral Pathology*.  
F. A. Peco, *Dentistry*.  
F. T. Van Woert, *Clinical Dentistry*.  
L. M. Waugh, *Histology and Embryology*.  
J. L. Young, *Orthodontia*.  
R. A. Hibbs, *Orthopedic Surgery*.  
J. W. Jobling, *Pathology*.  
L. Casamajor, *Neurology*.  
J. P. Ruyl, *Prosthetic Dentistry*.  
W. B. Dunning, *Operative Dentistry*.

**Clinical Professors :**

J. S. Thacher, *Clinical Medicine*.  
P. F. Chambers, *Clinical Gynecology*.  
F. Huber, *Clinical Medicine*.  
R. Lewis, *Clinical Laryngology and Otology*.  
J. Kaufman, *Clinical Medicine*.  
R. C. Denig, *Clinical Ophthalmology*.  
N. E. Brill, *Clinical Medicine*.  
F. Kammerer, *Clinical Surgery*.  
E. Libman, *Clinical Medicine*.  
F. R. Oastler, *Clinical Gynecology*.  
A. W. Hollis, *Clinical Medicine*.  
H. H. M. Lyle, *Clinical Surgery*.  
H. C. Taylor, *Clinical Gynecology*.  
E. Eliot, jr., *Clinical Surgery*.  
A. V. Moscheowitz, *Clinical Surgery*.  
S. Wachsmann, *Clinical Medicine*.

**Associate Professors :**

R. Burton-Opitz, *Physiology*.  
W. R. Williams, *Clinical Medicine*.  
F. H. Pike, *Physiology*.  
W. H. Woglom, *Cancer Research*.  
O. S. Strong, *Neurology*.  
W. D. Tracy, *Operative Dentistry*.

# Associate Professors—Continued :

- C. W. Ballard, *Pharmacognosy*.  
C. P. Wimmer, *Pharmacy*.  
W. Ward, *Obstetrics and Gynecology*.  
W. E. Caldwell, *Obstetrics and Gynecology*.  
A. M. Pappenheimer, *Pathology*.  
W. Darrach, *Surgery*.  
A. P. S. Lambert, *Surgery*.  
W. C. Clarke                   "  
E. H. Pool                   "  
W. Martin                   "  
F. B. St. John               "  
A. O. Whipple               "

# Assistant Professors :

- B. B. Gallaudet, *Anatomy*.  
J. H. Larkin, *Pathology*.  
K. M. Vogel, *Clinical Pathology*.  
D. Bovaird, jr., *Clinical Medicine*.  
C. N. B. Camae, *Clinical Medicine*.  
B. P. Farrel, *Orthopedic Surgery*.  
H. S. Patterson, *Clinical Medicine*.  
T. S. Hart                   "               "  
L. F. Frissell               "               "  
C. C. Lieb, *Pharmacology*.  
G. A. Tuttle, *Clinical Medicine*.  
F. S. Matthews, *Clinical Surgery*.  
W. A. Downes               "               "  
E. L. Scott, *Physiology*.  
E. L. Hunt, *Clinical Neurology*.  
W. A. Bastedo, *Clinical Medicine*.  
H. B. Williams, *Physiology*.  
R. Frothingham, *Laryngology and Otology*.  
T. L. Saunders, *Laryngology*.  
S. P. Goodhart, *Neurology*.  
O. S. Strong               "  
J. F. McCarthy, *Urology*.  
V. Danschakoff (Miss), *Anatomy*.  
A. H. Stevenson, *Preventive Dentistry*.  
E. S. Ulsaver, *Prosthetic Dentistry*.  
O. J. Chase, jr., *Operative Dentistry*.  
S. W. Van Saun, *Operative Dentistry*.  
G. M. MacKee, *Dermatology and Syphilology*.  
C. H. Jaeger, *Orthopedic Surgery*.  
R. G. Snyder, *Clinical Medicine*.  
G. L. La Porte               "  
B. S. Oppenheimer, *Clinical Medicine*.  
G. R. Elliott, *Clinical Orthopedic Surgery*.  
H. S. Carter, *Medicine*.  
W. W. Herrick, *Medicine*.  
H. C. Thacher               "

# FACULTY OF APPLIED SCIENCE.

## Professors :

- A. J. Moses, *Mineralogy*.  
R. Peele, *Mining*.  
M. I. Pupin, *Electro-Mechanics*.  
J. B. Clark, *Political Economy*.  
E. B. Lovell, *Civil Engineering*.  
H. C. Sherman, *Food Chemistry*.

## Professors—Continued :

- C. E. Lucke, *Mechanical Engineering*.  
W. Rautenstrauch, *Mechanical Engineering*.  
A. L. Walker, *Metallurgy*.  
W. Campbell               "  
A. F. Taggart, *Ore Dressing*.  
W. I. Slichter, *Electrical Engineering*.  
O. S. Morgan, *Agriculture*.  
D. D. Jackson, *Chemical Engineering*.  
R. M. Raymond, *Mining*.  
L. H. Baekeland, *Chemical Engineering*.  
R. H. MacKee, *Chemical Engineering*.

## Associate Professors :

- R. E. Mayer, *Engineering Drafting*.  
C. H. Burnside, *Mechanics*.  
J. H. Morecroft, *Electrical Engineering*.  
J. K. Finch, *Civil Engineering*.  
A. W. Hixson, *Chemical Engineering*.

## Assistant Professors :

- L. McIlvaine Luquer, *Mineralogy*.  
S. A. Tucker, *Electro-Chemistry*.  
M. Arendt, *Electrical Engineering*.  
E. J. Hall, *Assaying*.  
H. L. Parr, *Mechanical Engineering*.  
E. F. Kern, *Metallurgy*.  
C. W. Thomas, *Mechanical Engineering*.  
C. C. Sleffel  
E. D. Thurston, jr., *Mechanical Engineering*.  
L. De G. Moss, *Mechanical Engineering*.  
F. W. Hehre, *Electrical Engineering*.  
C. W. Larson, *Agriculture*.  
J. J. Morgan, *Chemical Engineering*.  
A. W. Thomas, *Food Chemistry*.

## SCHOOL OF LAW.

### Professors :

- M. Smith, *Roman Law and Comparative Jurisprudence*.  
J. B. Moore, *International Law and Diplomacy*.  
G. F. Canfield, *Law*.  
C. T. Terry, *Law*.  
N. Abbott  
W. D. Guthrie, *Constitutional Law*.  
H. F. Stone, *Law*.  
R. W. Gifford               "  
U. Moore                   "  
T. I. Parkinson, *Legislation*.  
S. McCune Lindsay, *Social Legislation*.  
Y. B. Smith, *Law*.  
W. W. Cook, *Law*.

### Associate Professors :

- T. R. Powell, *Constitutional Law*.  
G. Glenn, *Law*.

## SCHOOL OF JOURNALISM.

### Professors :

- J. W. Cunliffe, *English*.



**Associate Professors :**

R. C. E. Brown, *Journalism*.  
C. P. Cooper „

**SCHOOL OF ARCHITECTURE.**

**Professor :**

A. D. F. Hamlin, *History of Architecture*.

**Assistant Professors :**

C. A. Harriman, *Architecture*.  
66 Associates, 243 Instructors, 36 Lecturers, 66 Assistants, and 94 Clinical Assistants.

**Post-Graduate Courses.**—Leading to A.M., M.S., Ph.D., and LL.M.

**Museums.**—

Brander Matthews Dramatic Museum, 5,000 volumes on drama, models of theatres in different periods.  
Egleston Mineralogical Museum, 30,000 specimens.  
Museum of General Inorganic and Organic Chemistry, and of the Chemical Arts.  
Museum of Human and Comparative Anatomy.

**NEW YORK UNIVERSITY**, Washington Square, New York. (Chartered 1831.)

*Terms :* Three per year.

*Students :* 9,129.

**OFFICIALS.**

*Chancellor.*—Elmer E. Brown, Ph.D., LL.D.  
*Dean.*—Marshall S. Brown, A.M.  
*Registrar.*—Milton E. Loomis, A.M.  
*Bursar.*—Frank A. Fall, A.M., Litt.D.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

A. L. Bouton, *English*.  
E. G. Sihler, *Latin Language and Literature*.  
M. S. Brown, *History and Political Science*.  
L. A. McLouth, *German Language and Literature*.  
W. E. Waters, *Greek Language and Literature*.  
C. G. Shaw, *Ethics*.  
E. B. Babcock, *Romance Languages and Literatures*.  
A. H. Nason, *English*.

**Associate Professor :**

F. H. Wilkens, *German*.

**Assistant Professors :**

T. F. Jones, *European History*.  
B. S. Allen, *English*.  
H. C. Heaton, *Romance Languages*.  
H. A. Watt, *English*.  
C. C. D. Briggs, *Public Speaking*.

**FACULTY OF PURE SCIENCE.**

**Professors :**

T. W. Edmondson, *Mathematics*.  
C. L. Bristol, *Biology*.  
A. E. Hill, *Analytical Chemistry*.  
J. E. Woodman, *Geology*.  
J. C. Hubbard, *Physics*.

**Associate Professor :**

J. P. Simmons, *Chemistry*.

**Assistant Professors :**

G. I. Finlay, *Geology*.  
P. L. Thorne, *Mathematics*.  
J. R. Hobbie, *Physics*.  
H. J. Masson, *Chemistry*.  
F. Barry, *Chemistry*.  
20 Instructors and 9 Assistants.

**FACULTY OF APPLIED SCIENCE.**

**Professors :**

C. H. Snow, *Civil Engineering*.  
C. P. Bliss, *Mechanical Engineering*.  
C. E. Houghton, *Mechanics*.  
A. Haring, *Bridge and Railway Engineering*.  
J. L. Arnold, *Electrical Engineering*.

**Associate Professor :**

W. R. Bryans, *Engineering Drawing*.

**Assistant Professors :**

H. Dunham, *Engineering Drawing*.  
D. S. Trowbridge, *Engineering*.  
H. G. Tyler, *Mechanical Engineering*.  
2 Lecturers, 9 Instructors, 10 Assistants

**FACULTY OF LAW.**

**Professors :**

F. H. Sommer, *Law*.  
L. J. Tompkins „  
I. F. Russell „  
F. A. Erwin „  
T. D. Kenneson „  
C. F. Bacon, *Law of Commerce and Finance*.

### Professors—Continued :

F. W. Aymar, *Law*.  
W. F. Walsh, "  
E. D. Webb, "  
C. F. Burnett, "

### Assistant Professors :

G. C. Sprague, *Law*.  
A. T. Vanderbuilt, *Law*.  
5 Lecturers, 2 Instructors.

## SCHOOL OF MEDICINE.

### Professors :

S. A. Brown, *Therapeutics*.  
E. D. Fisher, *Mental and Nervous Diseases*.  
A. Flint, *Obstetrics*.  
W. P. Northrup, *Pediatrics*.  
J. A. Mandel, *Chemistry*.  
E. B. Dench, *Otology*.  
W. H. Park, *Bacteriology and Hygiene*.  
R. H. Sayre, *Orthopedic Surgery*.  
L. A. La Grade, *Military Surgery*.  
J. E. Weeks, *Ophthalmology*.  
H. Brooks, *Clinical Medicine*.  
G. B. Wallace, *Pharmacology*.  
H. C. Kackson, *Physiology*.  
H. D. Senior, *Anatomy*.  
A. T. Osgood, *Genito-Urinary Surgery*.  
W. B. Trimble, *Dermatology and Syphilology*.  
G. D. Stewart, *Surgery*.  
H. M. Biggs, *Medicine*.  
L. M. Hurd, *Laryngology*.  
W. C. Lusk, *Clinical Surgery*.  
L. T. Le Wald, *Roentgenology*.  
D. Symmers, *Pathology*.  
M. S. Gregory, *Mental Diseases*.

### Adjunct Professors :

W. E. Studdiford, *Gynecology*.  
R. G. Freeman, *Pediatrics*.

### Associate Professor :

R. J. Carlisle, *Medicine*.

### Assistant Professors :

F. W. Thyng, *Anatomy*.  
A. O. Gettler, *Chemistry*.  
A. R. Mandel, *Clinical Pathology*.  
C. Krumwiede, jr., *Bacteriology*.  
R. J. Wilson, *Bacteriology*.  
E. Foskett, *Gynecology*.  
C. E. Perkins, *Otology*.  
E. J. Pellini, *Pharmacology*.  
A. Fraser, *Pathology*.  
W. C. Noble, jr., *Hygiene*.  
W. Coleman, *Medicine*.

### Clinical Professors :

C. E. Quimby, *Medicine*.  
H. A. Haubold, *Surgery*.  
J. Douglas, "  
L. K. Neff, "  
W. H. Luckett, "

### Clinical Professors—Continued :

M. Manges, *Medicine*.  
A. Meyer, "  
C. A. Elsberg, *Surgery*.  
I. Abrahamson, *Neurology*.  
M. Fishberg, *Tuberculosis*.  
P. W. Nathan, *Orthopedic Surgery*.  
C. Goodman, *Surgery*.  
M. Nicoll, jr., *Infectious Diseases*.  
A. F. Hess, *Pediatrics*.  
W. J. Pulley, *Medicine*.  
J. McCoy, *Laryngology*.  
H. W. Wandless, *Ophthalmology*.  
J. B. Bissell, *Surgery*.  
I. Levin, *Cancer Research*.  
T. J. Abbott, *Medicine*.  
T. A. Smith, *Surgery*.  
A. M. Wright, "  
W. C. Cramp, "  
W. E. Caldwell, *Obstetrics*.  
W. M. Ford, "  
J. F. Nagle, *Medicine*.  
J. C. McCoy, *Surgery*.  
J. T. J. Bird, *Medicine*.  
E. P. Shelby, "  
R. E. Brown, *Obstetrics*.  
1 Associate, 12 Lecturers, 37 Instructors, 11 Assistants.

## COMMERCE, ACCOUNTS, AND FINANCE.

### Professors :

J. F. Johnson, *Political Economy and Finance*.  
J. T. Madden, *Accounting*.  
J. R. Wildman, "  
J. W. Jenks, *Government and Public Administration*.  
G. B. Hotchkiss, *Business English*.  
W. G. Fisher, *Economics*.  
J. R. Turner, "  
J. E. Lough, *Experimental Psychology*.  
E. J. Clapp, *Economics*.  
G. W. Gerstenberg, *Finance*.  
W. W. Douglas, *Accounting*.  
L. Galloway, *Commerce and Industry*.  
J. M. Lee, *Journalism*.  
A. F. Wilson, "  
A. N. Taylor, *Economics*.

### Associate Professor :

R. M. Binder, *Sociology*.  
J. D. Magee, *Economics*.

### Assistant Professors :

E. B. Gowin, *Political Economy*.  
M. E. Loomis, *Government*.  
M. B. Foster, *Economics*.  
E. J. Kilduff, *Business English*.  
W. A. Barber, *Methods in Commercial Education*.  
A. H. Rosenkampff, *Accounting*.  
R. P. Ettinger, *Finance*.  
40 Lecturers, 23 Instructors, 1 Assistant.

# NEW YORK STATE VETERINARY COLLEGE.

## Professors :

W. H. Hoskins, *Clinical Medicine and Jurisprudence.*  
 R. W. Ellis, *Veterinary Medicine.*  
 W. R. Blair, *Comparative and Special Pathology.*  
 W. O. L. Lellman, *Pathology.*  
 T. B. Rogers, *Materia Medica and Therapeutics.*

## Professors—Continued :

A. Eichhorn, *Infectious and Contagious Diseases.*  
 A. C. Hassloch, *Materia Medica, Therapeutics, Botany, and Pharmacology.*

## Assistant Professors :

H. Henning, *Veterinary Anatomy and Surgery.*  
 A. McNeil, *Bacteriology.*  
 J. F. De Vine, *Comparative Medicine.*  
 C. C. Schloemer, *Veterinary Medicine.*  
 10 Lecturers, 1 Instructor.

**Post-Graduate Courses** in Ancient Languages, Modern Languages, Philosophy and Religion, Education, Social Sciences, Mathematical and Physical Sciences, and Biological Sciences. There is also a School of Pedagogy.

**Library.**—University Library of 100,000 volumes. *Librarian* : B. Corwin, M.D. Various special Libraries.

## UNIVERSITY OF THE STATE OF NEW YORK. See ALBANY.

## GENERAL THEOLOGICAL SEMINARY OF THE PROTESTANT EPISCOPAL CHURCH IN THE UNITED STATES, Chelsea Square, New York City. (1817.)

Affiliated with Columbia and New York Universities.

*Terms* : Two semesters in *most* of, but not in all, of the Courses.

*Students* : Average more than 100.

## OFFICIALS.

*Dean.*—Very Rev. H. E. W. Fosbroke, D.D.

*Sub-Dean.*—Rev. H. McK. Denslow, D.D.

*Bursar and Registrar.*—C. B. Zabriskie, B.A.

## Degrees conferred.

### Degrees.

B.D. - - Hood of Oxford shape, of black ribbed silk lined with purple silk, and corded with scarlet silk.  
 D.D. - - Hood of Oxford shape, of scarlet cloth, lined with purple silk.

### Hoods.

## PROFESSORS.

Rev. H. McK. Denslow, *Pastoral Theology.*  
 Rev. C. N. Shepard, *Hebrew.*  
 Rev. C. C. Edmunds, *Literature of New Testament.*  
 Rev. L. W. Batten, *Literature of Old Testament.*  
 Rev. A. P. Hunt, *Christian Ethics.*  
 Rev. A. W. Jenks, *Ecclesiastical History.*

Rev. D. S. Miller, *Christian Apologetics.*  
 Rev. F. B. Blodgett, *Apocalyptic Literature.*  
 Rev. F. J. Hall, *Dogmatic Theology.*  
 Rev. C. H. Boynton, *Homiletics.*  
 Rev. B. S. Easton, *New Testament.*  
 Rev. R. B. Pomeroy, *Polity and Canon Law.*

3 Instructors and 1 Assistant.

**Post-Graduate Courses.**—New Courses, primarily for Graduates in Syraic, Religion of Israel, Historical Patristics, Philology of Christian Religion, St. Paul's Ethical Teaching and Eastern Liturgies.

In addition to the above, plans for graduate work are made on consultation, between the students individually and the professors in whose departments they wish to study.

**Library.**—The Library of the General Theological Seminary. *Librarian* : G. Dobbin Brown, Ph.D.

## UNION THEOLOGICAL SEMINARY, 3041 Broadway, New York. (1836.)

"Equal privileges of admission and instruction, with all the advantages of the institution, are allowed to students of every denomination of Christians." For admission graduation from a college of accepted standing is demanded.

*Terms* : Two semesters,  
*Budget* : \$284,000,

*Students* : 288.

## OFFICIALS.

*President.*—Rev. A. C. McGiffert, Ph.D., D.D., LL.D.

*Dean of Students.*—Rev. C. R. Gillett, D.D., L.H.D.

**Degrees conferred.**—B.Th., M.Th., D.Th.

## PROFESSORS.

## Professors :

Rev. A. C. McGiffert, *Church History*.  
 Rev. W. A. Brown, *Systematic Theology*.  
 Rev. C. P. Fagnani, *Old Testament Literature and Exegesis*.  
 Rev. J. E. Frame, *Sacred Literature*.  
 Rev. J. A. Bewer, *Old Testament History and Theology*.  
 Rev. H. Black, *Practical Theology*.  
 G. A. Coe, *Practical Theology*.  
 Rev. G. A. Johnston Ross, *Homiletics*.  
 Rev. H. P. Smith, *Hebrew and the Cognate Languages* (Librarian).  
 Rev. R. E. Hume, *History of Religions*.  
 Rev. G. S. White, *Applied Christianity*.  
 Rev. H. E. Fosdick, *Practical Theology*.

## Professors—Continued :

Rev. F. J. Foakes Jackson, *Christian Institutions*.  
 Rev. D. J. Fleming, *Missions*.  
 Rev. H. F. Ward, *Christian Ethics*.  
 Rev. E. W. Lyman, *Philosophy of Religion*.  
 Rev. W. W. Rockwell, *Church History*.  
 Rev. E. F. Scott, *Biblical Theology*.

## Assistant Professors :

H. S. Coffin, *Pastoral Theology*.  
 H. H. Tryon, *New Testament and Church History*.  
 H. Hartshorne, *Religious Education*.  
 A. L. Swift, jr., *Field Work*.  
 4 Instructors, 5 Lecturers, 5 Assistants.

**THE JEWISH THEOLOGICAL SEMINARY OF AMERICA**, 531-535 West 123rd Street, New York City. (1886.)

*Terms* : Two per year. *Budget* : Approximately \$60,000.00 per annum.

## OFFICIALS.

*Chairman of Board of Directors.*—Louis Marshall.  
*Treasurer.*—Daniel Guggenheim.  
*Honorary Secretary.*—Sol. M. Stroock.  
*Acting-President.*—Cyrus Adler, Ph.D.  
*Registrar.*—Israel Davidson, Ph.D.  
*Secretary.*—Joseph B. Abrahams.

**Degrees conferred.**—Graduate Course, Rabbi; Post-Graduate Course: D.H.L., D.D.; Honorary Degrees: D.H.L., D.D.

*Hoods.*—Light blue and white.

## PROFESSORS.

I. Friedlaender, *Biblical Literature and Exegesis*.  
 L. Ginzberg, *Talmud*.  
 A. Marx, *History*.  
 M. M. Kaplan, *Homiletics*.  
 I. Davidson, *Medieval Hebrew Literature*.  
 M. Hyamson, *Codes*.

3 Instructors, 1 Lecturer.

**Library.**—The Seminary houses the largest Jewish Collection of books and manuscripts in America, comprising 57,098 books and 1,820 manuscripts. *Librarian* : Alexander Marx.

**AMERICAN MUSEUM OF NATURAL HISTORY**, 77th Street and Central Park West, New York City.

5,100 Members. 58 Fellows.

*Director.*—Frederic A. Lucas, Sc.D.

**Department of Geology and Invertebrate Paleontology.**

*Curator.*—Edmund Otis Hovey, Ph.D.

*Associate Curator Invertebrate Paleontology.*—Chester A. Reeds.

**Department of Mineralogy.**

*Curator.*—Herbert P. Whitlock.

**Department of Woods and Forestry.**

*Curator.*—Miss M. C. Dickerson.



**Department of Invertebrate Zoology.**

*Honorary Curator.*—W. M. Wheeler.

*Curator.*—Henry E. Crampton.

*Associate Curators.*—R. W. Miner. F. E. Lutz.

**Department of Ichthyology and Herpetology.**

*Honorary Curator.*—Bashford Dean.

*Associate Curator Recent Fishes.*—John T. Nichols.

*Associate Curator Herpetology.*—Miss M. C. Dickerson.

*Assistant Curator Herpetology.*—G. K. Noble.

**Department of Mammalogy and Ornithology.**

*Curator.*—J. A. Allen.

*Curator Ornithology.*—Frank M. Chapman.

*Associate Curator Mammalogy.*—R. C. Andrews.

*Associate Curator Ornithology.*—W. de W. Miller.

*Associate Curator Mammalogy.*—H. E. Anthony.

*Assistant Curator Mammalogy.*—Herbert Lang.

**Department of Vertebrate Paleontology.**

*Honorary Curator.*—Henry Fairfield Osborn.

*Curator.*—W. D. Matthew.

*Associate Curator Fossil Mammals.*—Walter Granger.

*Associate Curator Fossil Reptiles.*—Barnum Brown.

*Associate in Paleontology.*—William K. Gregory.

**Department of Anthropology.**

*Curator.*—Clark Wissler.

*Curator Ethnology.*—Pliny E. Goddard.

*Associate Curator.*—Robert H. Lowie.

*Assistant Curators.*—

Herbert J. Spinden. N. C. Nelson. C. W. Mead. Louis R. Sullivan.

**Department of Anatomy and Physiology.**

*Curator.*—Ralph W. Tower.

**Department of Public Health.**

*Curator.*—Charles Edward A. Winslow.

**Department of Public Education.**

*Curator.*—George H. Sherwood.

*Associate Curator.*—G. Clyde Fisher.

**Books and Publications.**—Library of 60,000 volumes. *Curator.*—Ralph W Tower, Ph.D. *Assistant Librarian:* Miss I. R. Hood, A.B.

7 Assistants, 11 Research Associates.

**THE METROPOLITAN MUSEUM OF ART,**

Fifth Avenue and 82nd Street, New York.

Incorporated 1870, for the purpose of encouraging and developing the study of Fine Arts, and the application of the Arts to manufactures and practical life; advancing the general knowledge of kindred subjects, and, to that end, furnishing popular instruction.

The Museum collections include Painting, Sculpture, and Architecture. Ancient Art includes Egyptian, Babylonian, Assyrian, Phœnician, Cypriote, Etruscan, Greek, and Roman antiquities. In Painting, the attempt is made to illustrate the history of the art in antiquity, and from the Middle Ages to the present time, with especial attention to the work of American artists. The Department of Decorative Arts include works of various kinds in wood, metal, glass, etc., ceramics, tapestries, rugs, laces, and other textiles. The collections represent the Far East (China, Japan, Korea) and the Near East (Persia, India, and Asia Minor), Europe, and America. Special attention is given to American Art.

There are five study rooms, devoted respectively to textiles, European Decorative Arts, Prints, Classical and Egyptian antiquities.

The Library of the Museum contains about 33,000 volumes and 45,000 photographs, which are for the use of any visitor. *Librarian:* W. Clifford.

	1917.	1918.
Cost of administration .. ..	\$481,772.07	\$590,782.56
Part of cost received from the city ..	200,000.00	233,000.00
<b>Total .. ..</b>	<b>\$281,772.07</b>	<b>\$357,782.56</b>

The personnel of the Museum is as follows:

*Director.*—Edward Robinson.

*Secretary.*—Henry W. Kent.

*Assistant Director.*—Joseph Breck.

*Assistant Treasurer.*—Elial T. Foote.

*Registrar.*—Henry F. Davidson.

**Department of Paintings.**

*Curator.*—Bryson Burroughs.

**Department of Classical Art.**

*Curator.*—Edward Robinson.

**Department of Egyptian Art.**

*Curator.*—Albert M. Lythgoe.

**Department of Decorative Arts.**

*Curator.*—Joseph Breck.

**Department of Arms and Armour.**

*Curator.*—Bashford Dean.

**Department of Far Eastern Art.**

*Curator.*—S. C. Bosch Reitz.

**Department of Prints.**

*Curator.*—William M. Ivins, jr.

**NEW YORK ACADEMY OF SCIENCES.**

c/o The American Museum of Natural History, New York.

Founded in 1817 as the Lyceum of Natural History, chartered as the New York Academy of Sciences in 1876. Has 624 Members, besides 39 Honorary Members and 106 Corresponding Members. Weekly meetings at The American Museum of Natural History, October to May, inclusive.

**OFFICIALS.**

*President.*—Edward L. Thorndike.

*Recording Secretary.*—R. W. Tower (American Museum of Natural History).

*Corresponding Secretary.*—H. E. Crampton (American Museum of Natural History).

*Editor and Librarian.*—R. W. Tower.

**Library.**—12,000 volumes in The American Museum of Natural History.

**Publications :**

Annals of the Lyceum of Natural History, eleven volumes, 1824-1876.

Proceedings of the Lyceum of Natural History, Series 1-11, 1870-1874.

Transactions of the New York Academy of Sciences, sixteen volumes, 1881-1897.

Memoirs of the New York Academy of Sciences, Vol. I., Astronomy; Vol. II., Zoology.

Annals of the New York Academy of Sciences, twenty-eight volumes, 1879-1919.

Reports of the Scientific Survey of Porto Rico and the Virgin Islands, Vol. I., Part I., 1919.

**THE AMERICAN ORIENTAL SOCIETY**, was founded in 1842 for the promotion of Oriental studies, the encouragement of research in Eastern languages and literatures, and the publication of books and papers dealing with these subjects. More recently the Society has included in its field of activity also the historical study of religion in its widest scope, and a special session at the annual meeting is now devoted to this subject, and to communications of more general interest.

**OFFICIALS.**

*President.*—Prof. Charles R. Lanman, 9, Farrar Street, Cambridge, Mass.

*Corresponding Secretary.*—Dr. Charles J. Ogden, 628, West 114th Street, New York City.

*Recording Secretary.*—Prof. Le Roy C. Barret, Trinity College, Hartford, Conn.

*Librarian and Treasurer.*—Prof. Albert T. Clay, 401, Humphrey Street, New Haven, Conn.

*Editors of the Journal.*—Profs. James A. Montgomery and Franklin Edgerton.

**Publications.**—Journal, Vols. I. to XXXIX. (current), from 1843 to date.

**Library.**—Contains over 5,000 volumes and 200 MSS.

**THE NEW YORK ACADEMY OF MEDICINE**, 17, 19, and 21, West 43rd Street,  
New York, N.Y.

Instituted 1847. Incorporated 1851.

*Membership*: 1,300 Resident Fellows, 250 Non-Resident Fellows,  
250 Associate Fellows.

Honorary Fellowship limited to fifty.

**Objects.**—The advancement of the Science and Art of Medicine, the maintenance of a Public Medical Library, and the Promotion of Public Health.

*President.*—G. D. Stewart, M.D.

*Recording Secretary.*—R. S. Haynes, M.D.

*Corresponding Secretary.*—D. Bryson-DeClavan, M.D.

*Treasurer.*—S. M. Milliken, M.D.

**Library.**—114,201 volumes. *Librarian*: J. S. Brownne.

**AMERICAN GEOGRAPHICAL SOCIETY**, Broadway at 156th Street, New York City.  
(1852.)

Members, 3,771.

*President.*—John Greenough.

*Director and Editor.*—Isaiah Bowman.

**Medals**: Callum Geographical Medal, Charles P. Daly Medal, David Livingstone Centenary Medal of the Hispanic Society of America.

**Library.**—53,995 books, 41,563 maps.

**Publications**:

*Journal and Bulletin* (1852-1915).

*Geographical Review* (since 1916), containing authoritative articles of general interest.

*Journal of Geography* (since January, 1919), devoted to the educational aspect of the subject.

*Series of Monographs* (1 volume annually), *Occasional Maps*.

**AMERICAN CHEMICAL SOCIETY**, New York. (1876.)

Membership (1919), 13,410.

*President.*—W. H. Nichols, 25, Broad Street, New York City.

*Secretary.*—C. L. Parsons, Box 505, Washington, D.C.

*Treasurer.*—E. G. Love, 124E, 15th Street, New York City.

The object of the Society is the advancement of chemistry and the promotion of chemical research.

#### DIVISIONS.

There are nine divisions of the Society:

*Agricultural and Food Chemistry.*—W. D. Richardson.

*Biological Chemistry.*—I. K. Phelps.

*Fertilizer Chemistry.*—F. B. Carpenter.

*Industrial Chemistry and Chemical Engineering.*—H. S. Miner.

*Organic Chemistry.*—L. W. Jones.

*Pharmaceutical Chemistry.*—F. O. Taylor.

*Physical and Inorganic Chemistry.*—W. E. Henderson.

*Rubber Chemistry.*—J. B. Tuttle.

*Water, Sewage and Sanitation Chemistry.*—R. S. Weston.

The Society affords especial facilities for chemists interested in a particular branch of the science to organize themselves into a representative body within its ranks. There are also fifty-six local sections which hold monthly meetings.

The Society publishes three journals:

*Journal of the American Chemical Society* (now in its 41st volume). *Editor*:  
A. B. Lamb, Harvard University, Cambridge, Mass.

*Chemical Abstracts* (now in its 13th volume). *Editor*: E. J. Crane, Ohio State University, Columbus, O.

*Journal of Industrial and Engineering Chemistry* (now in its 11th volume).  
*Editor*: C. H. Herty, 35E, 41st Street, New York City.

**AMERICAN SOCIETY FOR PSYCHICAL RESEARCH**, 44, East 23rd Street, New York. (1884.)

*Secretary*.—J. H. Hyslop, Ph.D., LL.D.

**THE GEOLOGICAL SOCIETY OF AMERICA.** (1888.)

c/o American Museum of Natural History, 77th Street and Central Park West, New York City.

Members, 441.

*President*.—Dr. J. C. White, Morgantown W., Va.

*Secretary*.—Dr. E. Otis Hovey.

**Object of the Organization**.—To promote the Science of Geology in North America.

**AMERICAN MATHEMATICAL SOCIETY**, 501, West 116th Street, New York City.

Organized as the New York Mathematical Society, 1888. Reorganized as the American Mathematical Society, 1894.

**Objects**.—To encourage and maintain an active interest in Mathematical Science.

*President*.—Prof. Frank Morley, Johns Hopkins University.

*Secretary*.—Prof. F. N. Cole, Columbia University.

Meetings are held ten times a year, in New York, Chicago, and other cities. Membership, 740.

**Publications** : Bulletin (1891). Transactions (1900). Colloquium Lectures (1905).

**CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING**,  
576, Fifth Avenue, New York.

Founded in 1905 by the late Andrew Carnegie.

The Foundation grants retiring allowances to professors, and pensions to their widows, in a group of seventy-six Universities and Colleges; the Institutions being selected in the United States, Canada, and Newfoundland for their educational qualifications. During the thirteen years ending June 30, 1918, pensions and allowances had been granted, representing an expenditure of \$6,250,000.

The Division of Educational Enquiry, established in 1913, has issued a dozen bulletins including comprehensive studies of Medical Education, Engineering Education, Legal Education, and the Preparation of Teachers. The publications of the Foundation are distributed without charge.

The Foundation was incorporated by the United States Congress. It is administered by a board of twenty-five trustees, the presidents of Columbia, Harvard, McGill, Toronto, Yale, and other representative Universities and Colleges. The officers are:

*President*.—H. S. Pritchett.

*Treasurer*.—R. A. Franks.

*Secretary*.—Clyde Furst.

**PSYCHIATRIC INSTITUTE OF THE NEW YORK STATE HOSPITALS**,  
Ward's Island, New York City, N.Y.

Central Laboratory, Clinical Research and Teaching Institute for the State Hospitals of New York.

**Purpose**.—Conducting Research Work in the Field of Psychiatry, with the co-operation of the physicians of the various State hospitals. Psychiatric training and teaching of the physicians in the State hospitals.

#### OFFICIALS.

*Director*.—G. H. Kirby, M.D.

*Assistant Director*.—C. O. Cheney, M.D.

*Chief Associate in Neuropathology*.—C. B. Dunlap, M.D.

3 Physician Assistants, 5 Laboratory Assistants.

**Library**.—4,500 volumes.



# PALEONTOLOGICAL SOCIETY.

Paleontological Society of America founded in 1908. Affiliated with Geological Society of America. Publishes results only in Bulletin of Geological Society of America. 190 members in 1919.

## OFFICIALS.

*President.*—R. T. Jackson, Peterborough, New Hampshire.  
*Secretary.*—R. S. Bassler, Washington, D.C.

**THE NEW YORK BOTANICAL GARDENS**, Bronx Park, New York City. (1896.)

## STAFF.

*Director-in-Chief* (Development, Administration).—N. L. Britton.  
*First Assistant* (Administration).—H. A. Gleason.  
*Supervisor of Public Instruction.*—W. A. Murrill.  
*Head Curator of the Museums* (Flowering Plants).—J. K. Small.  
*Curator* (Flowering Plants).—P. A. Rydberg.  
*Curator* (Flowerless Plants).—M. A. Howe.  
*Curator* (Flowerless Plants).—F. J. Seaver.  
*Administrative Assistant.*—R. S. Williams.  
*Associate Curator.*—P. Wilson.  
*Associate Curator.*—F. W. Pennell.  
*Head Gardener.*—G. V. Nash,  
*Director of the Laboratories.*—A. B. Stout.  
*Bibliographer.*—J. H. Barnhart.  
*Honorary Curator of the Economic Collections.*—H. H. Rusby.  
*Honorary Curator of Mosses.*—Mrs. E. G. Britton.  
*Honorary Curator of Fossil Plants.*—A. Hollick.  
*Consulting Chemist.*—W. J. Gies.  
*Landscape Engineer.*—J. R. Brinley.  
*Supervisor of Gardening Instruction.*—K. R. Boynton.

The garden occupies 400 acres. It contains a large Museum of Economic Botany, Fossil Plants, and Systematic Collection, extensive greenhouses, outdoor gardens of hardy plants, and a Herbarium of 1,500,000 sheets, also Laboratories properly equipped for botanical research.

## Publications.—

Journal of the New York Botanical Garden (monthly), \$1.00 per year (not offered in exchange).  
Mycologia (bi-monthly), \$4.00 per year (not offered in exchange).  
Addisonia (quarterly), \$10.00 per year (not offered in exchange).  
Bulletin of the New York Botanical Garden, \$3.00 per volume (offered in exchange).  
North America Flora, \$1.50 per part, four or more parts to a volume (not offered in exchange).  
Memoirs of the New York Botanical Garden, \$3.00 per volume (not offered in exchange).  
Contributions from the New York Botanical Garden, \$5.00 per volume.

**Library.**—30,000 volumes. *Librarian:* Miss S. H. Harlow.

**NEW ZEALAND, UNIVERSITY OF.** See WELLINGTON.

## NORFOLK (Virginia).

**TRUCK STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—T. C. Johnson.

## NORMAN

**UNIVERSITY OF OKLAHOMA**, Norman, Oklahoma. (1892.)

Tuition is free to residents of the State. The Institution has had a very rapid growth both in size and in strength in the past six years.

The third and fourth years of the Medical School are situated at Oklahoma City, 18 miles from Norman.

*Terms* : Two semesters and a summer session. *Students* : 3,256.

*Budget* (1919-1920):

Maintenance .. .. .	\$567,849.00
Buildings .. .. .	\$240,110.37

#### OFFICIALS.

*President*.—Stratton Duluth Brooks.

*Vice-President*.—Edwin De Barr.

*Secretary and Registrar*.—Errett Rains Newby.

*Financial Clerk*.—Josiah Lawrence Lindsey.

*Librarian*.—Jesse Lee Rader.

A Dean acts as the head of each of the major Schools and Colleges. A Director is at the head of the subordinate Schools.

**Degrees conferred.**—B.A., B.S., B.S. in M.E., C.E., in Chem. E., M.E. in Engineering and Geology, M.D., B.M., B.F.A., B.S. in Pharmacy, Ph.C., Ph.G., LL.B., M.A., M.S. in Engineering, Chem. E., C.E., E.E.

#### PROFESSORS.

##### COLLEGE OF ARTS AND SCIENCES.

*Dean*.—J. S. Buchanan.

##### Professors :

[ology.

J. F. Paxton, *Greek and Classical Arche-*

J. W. Sturgis, *Latin*.

S. W. Reaves, *Mathematics*.

S. R. Hadsell, *English*.

G. Y. Williams, *Physical Chemistry*.

H. H. Lane, *Zoology*.

J. Dowd, *Sociology*.

T. H. Brewer, *English*.

L. Dora, *French*.

W. P. Hasaman, *Physics*.

J. Alley, *Government*.

R. T. House, *German*.

A. C. Parsons, *Secondary Education*.

W. W. Phelan, *Psychology and Educa-*  
*tion*.

A. C. Scott, *University Extension*.

J. W. Scroggs, *University Extension*.

W. A. Schmidt, *Educational Adminis-*  
*tration*.

R. G. Soutar, *Physical Education*.

P. Gimeno, *Spanish*.

H. H. Herbert, *Journalism*.

A. B. Adams, *Economics*.

##### Associate Professors :

M. A. Floyd, *History*.

J. H. Voss, *German*.

P. R. Duval, *Mathematics*.

F. F. Blachly, *Government*.

U. J. Griffith, *Secondary Education*.

J. W. Bridges, *Agricultural Education*.

F. W. Padgett, *Chemistry*.

##### Assistant Professors :

A. R. Ramey, *English*.

B. G. Owen, *Physical Education*.

H. C. Gossard, *Mathematics*.

A. Steitz, *German*.

I. M. Rapp, *Physics*.

V. E. Monnett, *Geology*.

A. H. Stang, *Physics*.

E. N. Ferriss, *Education*.

##### Assistant Professors—Continued :

N. Altshiller, *Mathematics*.

E. E. Dale, *History*.

C. E. Decker, *Geology*.

L. N. Morgan, *English*.

T. B. Robb, *Economics*.

A. J. Williams, *Geology*.

J. R. Cable, *Economics*.

H. E. Cunningham (Miss), *Philosophy*.

H. B. Davis, *Secondary Education*.

R. Martin, *Spanish*.

M. J. Mitchell (Miss), *Correspondence*  
*Study*.

T. F. Pierce, *Education*.

H. J. Hopkins (Miss), *Domestic Science*.

S. M. Salyer, *English*.

F. E. Tarman, *Journalism*.

##### COLLEGE OF ENGINEERING.

*Dean*.—J. H. Felgar.

##### Professors :

J. I. Tucker, *Civil Engineering*.

L. W. Morrow, *Electrical Engineering*.

H. L. Whittemore, *Mechanics*.

##### Associate Professors :

J. C. Davis, *Mechanics*.

F. G. Tappan, *Electrical Engineering*.

R. C. Terrell, *Highway Engineering*.

##### Assistant Professors :

L. C. Lichty, *Mechanical Engineering*.

G. B. Helmrich     ,,     ,,

##### COLLEGE OF MEDICINE AND PHARMACY.

*Dean*.—Le Roy Long (Medicine).

*Dean*.—D. B. R. Johnson (Pharmacy).

##### Professors :

L. A. Turley, *Histology and Pathology*.

A. K. West, *Medicine*.

E. S. Ferguson, *Ophthalmology*.

L. H. Buxton, *Otology, Rhinology, and*  
*Laryngology*.

G. Ellison, *Bacteriology*.

**Professors—Continued :**

- J. S. Hartford, *Gynecology*.  
 L. B. Nice, *Physiology*.  
 A. Young, *Neurology*.  
 J. W. Duke, *Mental Diseases and Jurisprudence*.  
 R. M. Hargrove, *Anatomy*.  
 J. A. Hatchett, *Obstetrics*.

**Associate Professors :**

- R. M. Howard, *Surgery*.  
 J. W. Riely, *Genito-Urinary Surgery*.  
 H. Reed, *Surgery*.  
 A. L. Blesh, *Surgery*.  
 E. F. Davis, *Ophthalmology*.  
 G. A. La Motte, *Medicine*.  
 L. J. Moorman, *Medicine*.  
 L. A. Riley, *Medicine*.  
 H. C. Todd, *Otology, Rhinology, and Laryngology*.  
 S. R. Cunningham, *Gynecology*.  
 R. L. Hull, *Orthopedic Surgery*.  
 E. S. Lain, *Dermatology, Electro-Therapy, and Radiography*.  
 R. E. Looney, *Obstetrics*.  
 M. Smith, *Clinical Surgery*.  
 W. M. Taylor, *Pediatrics*.  
 A. W. White, *Medicine*.  
 J. M. Alford, "  
 W. F. Dixon, *Otology, Rhinology, and Laryngology*.  
 D. W. Griffin, *Mental Diseases and Medical Jurisprudence*.  
 W. Langston, *Clinical Pathology*.  
 F. B. Sorgatz, "  
 W. J. Wallace, *Genito-Urinary Diseases and Syphilology*.

**Assistant Professors :**

- J. F. Kuhn, *Surgery*.  
 J. T. Martin, *Medicine*.

**Post-Graduate Courses.**—Post-Graduate work is offered leading to Academic, Scientific, and Engineering Graduate degrees.

**Museums.**—The botanical, zoological, paleontological collections are excellent. They include the Carroll collection of eggs, birds, animals, and shells, and the Dorrance collection of butterflies and moths, comprising about 650 species collected in Costa Rica. The paleontology collection includes the Bennet collection of about 10,000 fossils.

The School of Medicine has a good collection of gross and microscopic pathologic specimens.

The University historical and ethnological collections contain many valuable and interesting specimens.

49 Instructors, 6 Assistants, 2 Teaching Fellows, 39 Special Lecturers.

**NORTH CAROLINA, UNIVERSITY OF.** See CHAPEL HILL.

**NORTH DAKOTA, UNIVERSITY OF.** See GRAND FORKS.

**NORTHAMPTON INSTITUTE.** See LONDON.

**NORTHAMPTON (Massachusetts).**

**SMITH COLLEGE,** Northampton, Mass. (1875.)

*Terms :* Two semesters a year.

*Students :* 2,010.

**Assistant Professors—Continued :**

- J. F. Messenbaugh, *Pediatrics*.  
 A. A. Will, *Rectal Surgery*.  
 F. J. Bolend, *Medicine*.  
 T. C. Burns, *Neurology*.  
 L. E. Andrews (Miss), *Pediatrics*.  
 J. A. Reck, *Gynecology*.  
 C. J. Fishman, *Medicine*.  
 W. A. Fowler, *Obstetrics*.  
 R. G. Bolend, *Genito-Urinary Diseases and Syphilology*.  
 C. E. Clymer, *Surgery*.

**SCHOOL OF LAW.**

*Dean.*—J. C. Monnet.

**Professors :**

- H. H. Foster, *Law*.  
 J. B. Cheadle, "  
 V. H. Kulp, "  
 J. W. Madden, "  
 L. P. Wilson, "

**SCHOOL OF FINE ARTS.**

*Dean.*—Fredrik Holmberg.

**Professors :**

- E. E. Dungan (Miss), *Music and Piano*.  
 C. F. Giard, *Piano and Theory of Music*.

**Associate Professors :**

- P. S. Carpenter, *Violin*.  
 O. B. Jacobson, *Art*.  
 L. S. Salter, *Piano and Theory of Music*.  
 G. F. W. Schmidt, *Voice*.

**Assistant Professors :**

- A. Bragg (Miss), *Voice*.  
 F. Kuschan, *Music*.  
 O. A. J. Lehrer, *Music*.  
 M. F. Gibbons (Miss), *Violin*.

## OFFICIALS.

*President.*—W. A. Neilson, Ph.D., LL.D.

*Registrar.*—Miss M. Eastman, A.B.

*Treasurer.*—George B. McCullam, A.B.

**Degrees conferred.**—A.B., A.M., Ph.D., B.S., M.S.

## PROFESSORS.

**Professors :**

E. P. Cushing (Miss), *Mathematics*.  
 M. A. Jordan (Miss), *English Language and Literature*.  
 H. N. Gardiner, *Philosophy*.  
 D. W. Tryon, *Art*.  
 J. E. Brady, *Latin Language and Literature*.  
 H. H. Wilder, *Zoology*.  
 I. F. Wood, *Biblical Literature and Comparative Religion*.  
 W. F. Ganong, *Botany*.  
 F. A. Waterman, *Physics*.  
 E. H. Mensel, *Germanic Languages and Literature*.  
 C. F. Emerick, *Economics and Sociology*.  
 H. D. Sleeper, *Music*.  
 J. H. Caverno (Miss), *Greek*.  
 E. D. Hanscom, *English Language and Literature*.  
 A. A. Cutler (Miss), *Philosophy*.  
 A. V. Churchill, *History and Interpretation of Art*.  
 J. S. Bassett, *American History*.  
 R. E. S. Olmsted, *Vocal Music*.  
 H. W. Bigelow (Miss), *Astronomy*.  
 F. Gilman (Miss), *Hygiene*.  
 C. B. Bourland (Miss), *Spanish Language and Literature*.  
 A. Schinz, *French Language and Literature*.  
 H. V. Abbott, *English Language and Literature*.  
 E. Kimball, *History*.  
 C. F. A. Lange, *German*.  
 L. Delpit (Miss), *French Language and Literature*.  
 R. G. Wood (Miss), *Mathematics*.  
 W. J. Miller, *Geology*.  
 D. C. Rogers, *Psychology*.  
 S. B. Fay, *European History*.  
 S. N. Deane, *Greek*.  
 H. R. Cobb (Miss), *Mathematics*.  
 A. H. Abel (Miss), *History*.  
 J. E. Goldthwait, *Hygiene*.  
 R. A. Rice, *English Language and Literature*.  
 R. Piccoli, *Italian*.  
 F. A. Gragg (Miss), *Latin*.  
 R. S. Smith, *Biblical Literature*.  
 J. C. Hildt, *History*.  
 A. L. Barbour (Miss), *Greek*.  
 R. W. Holmes (Miss), *Music*.  
 R. Michaud (Miss), *French Language and Literature*.

**Associate Professors :**

M. B. McElwain (Miss), *Latin*.  
 F. S. Chapin, *Economics and Sociology*.  
 L. A. Bliss (Miss), *Latin*.  
 E. P. Cook (Miss), *Chemistry*.  
 J. W. Snow (Miss), *Botany*.  
 E. Bates (Miss), *Music*.  
 E. S. Mason (Miss), *Chemistry*.  
 L. S. Cheever (Miss), *English Language and Literature*.  
 M. B. Fuller (Miss), *History*.  
 F. G. Smith (Miss), *Botany*.  
 W. D. Gray, *History*.  
 J. Wiehr, *German*.  
 M. Bradshaw (Miss), *English Language and Literature*.  
 A. A. Heine (Miss), *Geology*.  
 S. R. Benedict (Miss), *Mathematics*.  
 M. L. Foster (Miss), *Chemistry*.  
 I. W. Wilder, *Zoology*.  
 A. W. Locke, *Music*.  
 M. M. Hopkins (Miss), *Astronomy*.  
 W. T. Moog, *Music*.  
 H. G. Townsend, *Education*.  
 M. D. Lewis (Miss), *English Language and Literature*.  
 R. D. Welch, *Music*.  
 E. Lowenthal (Miss), *Economics and Sociology*.  
 O. T. Robert, *French Language and Literature*.  
 J. Y. Cann (Miss), *Chemistry*.  
 H. M. Parshley, *Zoology*.  
 M. Rooke (Miss), *Italian Language and Literature*.  
 A. T. Jones, *Physics*.  
**Assistant Professors :**  
 A. E. Miller (Miss), *German*.  
 B. Strong (Miss), *Art*.  
 H. De W. Carrington, *German*.  
 L. S. Clark (Miss), *Chemistry*.  
 F. W. Wright, *Latin*.  
 S. A. Elkus (Miss), *Philosophy*.  
 H. I. Williams (Miss), *French*.  
 H. M. King (Miss), *French*.  
 E. A. Shearer (Miss), *Education*.  
 P. R. Lieder, *English Language and Literature*.  
 R. Withington, *English Language and Literature*.  
 S. H. Hamilton (Miss), *Music*.  
 S. M. Rambo (Miss), *Mathematics*.  
 M. M. Cook (Miss), *French*.  
 H. A. Choate (Miss), *Botany*.  
 M. M. Sampson (Miss), *Zoology*.



**Assistant Professors—Continued :**

B. Goode (Miss), *Music*.  
 E. Richards (Miss), *Hygiene*.  
 L. Hatch (Miss), *Geology*.  
 M. C. G. Woodhouse, *Economics and Sociology*.  
 H. Senseney, *Art*.  
 S. A. Eliot, *English Language and Literature*.  
 H. R. Patch, *English*.

**Assistant Professors—Continued.**

E. V. Loudon (Mrs.), *Spoken English*.  
 T. H. Port, *Music*.  
 A. Gleason (Miss), *Music*.  
 E. T. Woodhouse, *History*.  
 R. Lansing (Miss), *Spanish*.  
 J. Drachler, *Economics and Sociology*.

60 Instructors, 17 Assistants, 10 Readers and Demonstrators.

**Post-Graduate Courses.**—A.M. and Ph.D.

## NOTTINGHAM

**UNIVERSITY COLLEGE**, Nottingham. (1880.)

*Terms :* Three per year.

### OFFICIALS.

*President.*—His Grace The Duke of Portland, K.E.

*Principal.*—W. H. Heaton, M.A.

*Registrar.*—J. E. Shimold.

**Degrees conferred.**—B.A., M.A., B.D., B.Sc., M.Sc.

### PROFESSORS.

**Professors :**

R. W. Bond, *English*.  
 M. L. R. Beaven, *History*.  
 F. S. Granger, *Classics*.  
 E. Weekley, *Modern Languages*.  
 A. W. Kirkaldy, *Economics*.  
 A. Henderson, *Education*.  
 A. Gill, *Music*.  
 H. T. H. Piegis, *Mathematics*.

**Professors—Continued :**

E. H. Breton, *Physic*.  
 F. S. Kipping, *Chemistry*.  
 J. W. Carr, *Biology*.  
 H. H. Swinnerton, *Geology*.  
 C. H. Balleid, *Engineering*.  
 W. Robinson, *Technology*.  
 W. H. McMillan, *Mining*.  
 60 Lecturers, Assistants, etc.

## OBERLIN (Ohio).

**OBERLIN COLLEGE**, Oberlin, Ohio. (1833.)

*Terms :* Two semesters.

*Students :* 1,500.

*Budget :* \$675,000 a year.

### OFFICIALS.

*President.*—Henry Churchill King, D.D., LL.D., L.H.D.

*Dean of the College of Arts and Sciences.*—C. N. Cole, Ph.D.

*Dean of the School of Theology.*—E. I. Bosworth, D.D.

*Director of the Conservatory of Music.*—C. W. Morrison, Mus.D.

*Secretary.*—G. M. Jones, A.M.

*Assistant President.*—W. F. Bohn, A.M.

*Treasurer.*—H. B. Thurston, Ph.B.

*Assistant Secretary.*—J. E. Wirkler, A.M.

*Librarian.*—A. S. Root, A.M.

**Degrees conferred.**—A.B., A.M., Mus.B., Mus.M., D.B., S.T.M.

### PROFESSORS.

#### FACULTY OF ARTS AND SCIENCES.

**Professors :**

A. S. Root, *Bibliography*.  
 C. B. Martin, *Greek Literature and Greek Archeology*.  
 F. Anderegg, *Mathematics*.  
 F. E. Leonard, *Hygiene and Physical Education*.

**Professors—Continued :**

A. M. Abbott (Miss), *German Language and Literature*.  
 D. Hanna (Miss), *Physical Education*.  
 S. F. MacLennan, *Philosophy and Comparative Religion*.  
 F. O. Grover, *Botany*.  
 C. H. A. Wager, *English*.  
 E. A. Miller, *Education*.

**Professors—Continued :**

- C. N. Cole, *Latin*.  
 F. M. Fitch (Miss), *Biblical Literature*  
 (*Dean of Women*).  
 C. W. Savage, *Physical Education* :  
*Director of Athletics*.  
 K. F. Geiser, *Political Science*.  
 R. H. Stetson, *Psychology*.  
 S. R. Williams, *Physics*.  
 L. E. Lord, *Latin Language and Literature*.  
 G. D. Hubbard, *Geology and Geography*.  
 R. A. Budington, *Zoology*.  
 C. G. Rogers, *Comparative Physiology*  
*in the Department of Zoology*.  
 D. R. Moore, *Medieval and Modern*  
*European History*.  
 H. L. Lutz, *Economics*.  
 H. A. Miller, *Sociology*.  
 H. N. Holmes, *Chemistry*.  
 C. Ward, *History and Appreciation of*  
*Art*.

**Associate Professors :**

- W. D. Cairns, *Mathematics*.  
 K. L. Cowdery, *French*.  
 R. P. Jameson, *Romance Languages*.  
 T. N. Metcalf, *Physical Education*.  
 H. Clark, *Physics*.  
 F. J. Hosford (Miss), *Acting Dean of*  
*Women*.  
 L. Jones, *Animal Ecology*.  
 P. D. Sherman, *English*.  
 E. M. Oakes (Miss), *Drawing and*  
*Painting*.  
 M. E. Sinclair (Miss), *Mathematics*.  
 W. H. Chapin, *Chemistry*.  
 R. A. Jelliffe, *English Composition*.  
 J. C. McCullough, *Chemistry*.  
 S. P. Nichols (Miss), *Botany*.  
 H. F. Cochran (Miss), *Physical Educa-*  
*tion*.  
 E. M. Kitch (Miss), *Philosophy*.

**Assistant Professors :**

- L. Alexander, *Latin and Greek*.  
 C. C. W. Nicol, *Psychology and Philos-*  
*ophy* (*Dean of Men*).  
 H. L. King, *History*.  
 A. I. Taft, *English*.  
 E. S. Jones, *Psychology*.  
 J. Speelman, *Physical Education*.  
 H. H. Preston, *Economics*.  
 E. L. Baker, *French*.  
 H. Kyrk (Miss), *Economics*.  
 J. B. de Forest, *French*.  
 J. F. Mack, *English*.

**Museums.—**

Zoological Museum. *Curator* : L. Jones.  
 Art Museum. *Director* : C. Ward.

OHIO ACADEMY OF SCIENCE. *See* COLUMBUS.

STATE UNIVERSITY. *See* COLUMBUS.

OHIO UNIVERSITY. *See* ATHENS.

**Assistant Professors—Continued :**

- L. F. Keller, *Physical Education*.  
 R. S. McEwen, *Zoology*.  
 G. S. Skinner, *Chemistry*.  
 D. Edwards, *Oratory*.  
 18 Instructors, 6 Assistants.

**GRADUATE SCHOOL OF THEOLOGY.****Professors :**

- H. C. King, *Theology and Philosophy*.  
 E. I. Bosworth, *New Testament Lan-*  
*guage and Literature*.  
 G. W. Fiske, *Practical Theology*.  
 K. Fullerton, *Old Testament Language*  
*and Literature*.  
 W. J. Hutchins, *Homiletics*.  
 I. C. Hannah, *Church History*.  
 H. A. Youtz, *Philosophy of Religion*  
*and Christian Ethics*.  
 L. F. Miskovsky (Principal of Slavic  
 Department), *Bohemian Language*.

**THE CONSERVATORY OF MUSIC.****Professor :**

- H. H. Carter, *Pianoforte*. [tion.  
 G. W. Andrews, *Organ and Composi-*  
 A. S. Kimball, *Singing*.  
 E. Dickinson, *History and Criticism*  
*of Music*.  
 E. G. Sweet, *Singing*.  
 W. K. Breckenridge, *Pianoforte*.  
 A. E. Heacox, *Theory*.  
 C. K. Barry, *Pianoforte*.  
 W. T. Upton     "  
 H. Harroun, *Singing*.  
 C. H. Adams     "  
 F. J. Lehmann, *Theory*.  
 W. J. Horner, *Singing*.  
 G. C. Hastings, *Pianoforte*.  
 F. A. Goerner, *Violoncello*.  
 O. A. Lindquist, *Pianoforte*.  
 F. G. Nash (Miss), *Dramatic Expres-*  
*sion* (*Dean of Women*).  
 M. Koessler, *Violin and Ensemble*.  
 B. H. Davis, *Pianoforte*.  
 K. W. Gehrkens, *School Music*.  
 F. B. Stiven, *Organ*.

**Assistant Professors :**

- M. J. Adams (Mrs.), *Singing*.  
 A. M. Hastings (Mrs.), *Pianoforte*.  
 A. H. Doolittle (Mrs.)     "  
 B. A. Miller (Mrs.)     "  
 M. U. Bennett (Mrs.),     "  
 W. H. Frederick, *Wind Instruments*.  
 7 Instructors.

OHIO WESLEYAN UNIVERSITY. *See* DELAWARE.OKLAHOMA UNIVERSITY. *See* NORMAN.

## OMAHA (Nebraska).

THE CREIGHTON UNIVERSITY, Omaha, Nebraska. (1878.)

*Students* : 1,061.*Budget* : Productive Endowment, \$2,750,000.

## OFFICIALS.

*President*.—Rev. J. McCormick, S.J.*Dean, College of Law*.—(Vacant.)*Dean, College of Dentistry*.—A. H. Hipple.*Dean, College of Pharmacy*.—H. C. Newton.*Dean, College of Medicine*.—H. Von W. Schulte.*Dean, College of Arts and Sciences*.—Rev. R. M. Kelley, S.J.**Degrees conferred**.—A.B., B.S., Ph.B., B.Litt., A.M., LL.B., M.D., D.D.S.

## PROFESSORS.

COLLEGE OF ARTS AND  
SCIENCES.**Professors :**C. M. Bakewell, *Greek*.Rev. W. Padberg, *Latin*.Rev. F. B. Cassilly, *Pedagogy and  
Christian Doctrine*.B. Damilano, *Spanish*.Rev. J. B. De Shryver, *French*.J. F. M. Duehren, *French*.Rev. A. M. Effinger, *English and  
Political Economy*.Rev. W. J. Corbey, *English*.Rev. A. Kaufmann, *History and  
German*.Rev. L. Kellinger, *Public Speaking*.J. E. Kenny, *Spanish*.Rev. J. A. Krance, *Chemistry and  
German*.T. E. Mills, *Athletics*.M. A. Schaefer, *Biology*.Rev. W. P. Quinlan, *Philosophy and  
Mathematics*.Rev. F. X. Reilly, *English and Chris-  
tian Doctrine*.Rev. W. F. Rigge, *Physics and As-  
tronomy*.Rev. F. A. Meyer, *Psychology and  
Ethics*.Rev. J. A. Weis, *Latin*.

## COLLEGE OF DENTISTRY.

**Professors :**A. H. Hipple, *Operative Dentistry*.E. H. Bruening, *Dental Anatomy*.B. H. Harms, *Anesthesia and Oral  
Surgery*.T. T. Harris, *Radiology*.H. E. King, *Clinical Practice*.R. Kleyla, *Physical Diagnosis*.E. H. Orchar, *Technical Drawing*.W. L. Ross, *Dental Neurology*.**Professors—Continued :**O. Runyan, *Radiology*.J. A. Sanders, *Anatomy*.W. H. Sherraden, *Prosthetic and Clinical  
Dentistry, Crown and Bridge Work*.W. Sorenson, *Technical Drawing*.W. E. Stoff, *Orthodontia*.C. J. Wonder, *Oral Surgery*.C. E. Woodbury, *Gold Foil Manipula-  
tion*.

1 Lecturer, 11 Demonstrators.

## COLLEGE OF LAW.

**Professors :**H. F. Gillespie, *Law*.

A. H. Bigelow „

D. J. Burke „

J. M. Fitzgerald „

N. D. Reardon „

W. P. Sternberg „

L. T. Te Pool „

11 Lecturers.

## COLLEGE OF PHARMACY.

**Professors :**H. C. Newton, *Pharmacy*.A. L. Muirhead, *Pharmacology*.

2 Lecturers.

## COLLEGE OF MEDICINE.

**Professors :**W. J. Nolan, *Chemistry*.V. J. Fitz-Simon, *Chemistry*.H. F. Gerald, *Histology and Physiology*.J. S. Foote, *Pathology*.J. M. Barstow, *Therapeutics*.R. Rix, *Gynecology*.B. M. Riley, *Medicine*.H. L. Akin, *Clinical Medicine*.A. Mack, *Obstetrics*.H. L. Arnold, *Ophthalmology*.A. D. Dunn, *Medicine*.

**Professors—Continued :**

G. F. Simanek, *Surgery*.  
 A. F. Tyler, *Clinical Roentgenology*.  
 A. Sachs, *Clinical Medicine*.  
 C. McMartin, *Dermatology and Genito-Urinary Diseases*.  
 A. K. Detwiler, *Clinical Therapeutics*.  
 N. Jones, *Pediatrics*.  
 S. Morgulis, *Physiology and Bio-Chemistry*.  
 H. Von W. Schulte, *Anatomy*.  
 A. J. Brown, *Surgery*.  
 H. N. Stevenson, *Bacteriology and Surgical Pathology*.  
 T. J. Dwyer, *Surgery*.  
 S. McCleneghan, *Obstetrics*.  
 L. A. Dermody, *Orthopedics*.  
 F. J. Langdon, *Surgery*.  
 F. J. Schieier, "  
 M. Wohl, *Clinical Pathology*.  
 L. B. Bushman, *Otology*.

**Libraries.—**

The Creighton University Library. *Librarian* : Rev. W. T. Kinsella.

The Creighton Medical Library. *Librarian* : Miss L. Cranny.

The Creighton Law Library. *Librarian* : H. F. Gillespie.

The Creighton Dental Library. *Librarian* : C. E. Burns.

**Museum.**—The Creighton University Museum. *Curator* : Rev. W. F. Rigge.

**Post-Graduate Courses.**—Leading to M.A. and P.C.

**UNIVERSITY OF NEBRASKA COLLEGE OF MEDICINE**, Medical Campus, 42 and Dewey Avenue, Omaha, Nebraska. (1882.)

*Terms* : One session.

*Students* : 190.

*Budget* :

For Medical College	.. ..	\$75,000 per annum.
For Hospital	.. ..	90,000 " "

**OFFICIALS.**

*Chancellor.*—S. Avery, Ph.D., LL.D.

*Dean.*—I. S. Cutter, B.Sc., M.D.

**Degree conferred.**—M.D.

**PROFESSORS.****Professors :**

A. Guenther, *Physiology*.  
 C. McCorkle Poynter, *Anatomy*.  
 W. Willard, *Anatomy*.  
 M. I. Smith, *Pharmacology*. [ology.  
 H. E. Eggers, *Pathology and Bacteri-*  
 W. Bridges, *Principles and Practice of*  
*Medicine and Clinical Medicine*.  
 H. Gifford, *Ophthalmology and Otology*.  
 W. F. Milroy, *Clinical Medicine and*  
*Physical Diagnosis*.  
 A. F. Jonas, *Practice of Surgery and*  
*Clinical Surgery*.  
 H. M. McClanahan, *Pediatrics*.  
 B. B. Davis, *Principles of Surgery and*  
*Clinical Surgery*.  
 F. S. Owen, *Laryngology and Rhinology*.  
 A. Schalek, *Dermatology and Syphi-*  
*ology*.  
 Le Roy Crummer, *Clinical Medicine*.  
 J. P. Lord, *Orthopedic Surgery*.  
 J. E. Summers, *Clinical Surgery*.

**Professors—Continued :**

N. F. Steiner, *Medicine*.  
 J. Duncan, *Genito-Urinary Diseases*.  
 J. M. Schramek, *Surgery*.  
 G. W. Dishong, *Nervous and Mental*  
*Diseases*.  
 E. Chaloupka, *Gynecology*.  
 C. J. Nemec, *Surgery*.  
 F. W. Heagey, *Anatomy*.  
 W. Y. Thompson, *Medicine*.  
 S. Hecht, *Physiology*.  
 V. E. Levin, *Bio-Chemistry*.  
 P. T. Conlan, *Anatomy*.  
 C. F. Crowley, *Physics, Chemistry,*  
*Metallurgy, and Biology*.  
 F. J. Despecher, *Materia Medica and*  
*Therapeutics*.  
 J. W. Duncan, *Special Diseases*.  
 H. F. Gerald, *Bacteriology, Physiology*  
*Pathology, and Histology*.  
 24 Lecturers.

**Professors—Continued :**

G. A. Young, *Neurology and Psychiatry*  
 A. W. Peters, *Bio-Chemistry*.  
 A. C. Stokes, *Clinical and Experimental*  
*Surgery*.  
 C. W. Pollard, *Obstetrics*.

**Assistant Professors :**

J. S. Goetz, *Therapeutics*.  
 B. W. Christie, *Pediatrics*.  
 R. W. Bliss, *Clinical Medicine*.  
 R. R. Hollister, *Surgery*.  
 C. R. Kennedy, *Urology*.  
 J. M. Banister, *Surgery*.  
 C. C. Morrison "  
 E. L. Bridges, *Clinical Medicine*.  
 A. A. Johnson (Superintendent of  
 Dispensary), *Clinical Pathology*.  
 J. T. Myers, *Bacteriology*. [Otology.  
 J. McDowell Patton, *Ophthalmology and*  
 E. G. Davis, *Urology*.  
 50 Instructors, Clinical Assistants, etc.



**Post-Graduate Courses.**—Post-Graduate Courses in all Departments leading to A.M., Ph.D. Courses given in conjunction with Graduate College of University.

**Library.**—The Library of the College of Medicine contains 15,000 bound volumes, 12,000 pamphlets and reprints, 140 current journals on regular subscription list. *Librarian*: Miss H. Wilson.

## ONDERSTEPOORT (South Africa).

### DIVISION OF VETERINARY RESEARCH OF THE UNION OF SOUTH AFRICA.

The Head Laboratories are situated at Onderstepoort, seven miles north of Pretoria.

Permanent Branch Laboratories are situated at Allerton, near Maritzburg, Natal; at Grahamstown, E. Cape; and Armodsvlakte, near Vryburg, Bechuanaland.

Postal Address: Box 593, Pretoria.

#### OFFICIALS AT ONDERSTEPOORT.

R. E. Montgomery,	<i>Director of Veterinary Research.</i>	
D. T. Mitchell,	<i>Assistant Director of Veterinary Research.</i>	
H. H. Green,	<i>Bio-Chemist.</i>	
F. Veglia,	<i>Senior Veterinary Research Officer.</i>	
E. M. Robinson,	<i>Veterinary Research Officer.</i>	
G. de Kock,	"	"
H. H. Carson,	"	"
T. Scheuber,	"	"
H. Kind	"	"
C. P. Nesor	"	"

#### OFFICIAL AT ALLERTON, MARITZBURG.

W. H. Andrews, *Senior Veterinary Research Officer.*

Postal Address: Box 405, Pietermaritzburg.

#### OFFICIAL AT GRAHAMSTOWN.

(Vacant), *Senior Veterinary Research Officer.*

Postal Address: Box 41, Grahamstown.

#### OFFICIAL AT ARMODSVLAKTE, VRYBURG.

##### SPECIAL INVESTIGATIONS.

Sir Arnold Theiler, *Director of Lamziekte Research.*

Postal Address: H. Meier, *Veterinary Research Officer.* Box 14, Vryburg.

**ONTARIO AGRICULTURAL COLLEGE.** *See GUELPH.*

**ONTARIO VETERINARY COLLEGE.** *See TORONTO.*

**OREGON, UNIVERSITY OF.** *See EUGENE.*

**ORIENTAL COLLEGE.** *See LAHORE.*

**ORMONDE COLLEGE.** *See MELBOURNE.*

## ORONO (Maine).

**UNIVERSITY OF MAINE,** Orono, Maine. (1865.)

*Terms*: Two semesters. *Students*: (1914), 1,276; (1919), 691; (1920), 1,208.

*Budget*: \$500,000 (including extension work).

#### OFFICIALS.

*President.*—Robert Judson Aley, Ph.D., LL.D.

*Dean of the University.*—J. Norris Hart, Sc.D.

*Dean of the College of Arts and Sciences.*—J. Stacy Stevens, LL.D.

*Dean of the College of Agriculture.*—L. S. Merrill, M.D.

*Dean of the College of Technology.*—H. Sherburne Boardman, C.E.

*Director of the Agricultural Experiment Station.*—C. Dayton Woods, Sc.D.

**Degrees conferred.**—B.A., B.Pe., B.S., LL.B., M.A., M.S., LL.M., C., E.E., Ch.E., M.E.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- M. A. Chrysler, *Biology*.  
 Irving H. Blake, "  
 Charles H. Batchelder, *Biology*.  
 John H. Ashworth, *Economics and Sociology*.  
 E. C. Bancroft, *Economics and Sociology*.  
 J. Howard Toelle, *Economics and Sociology*.  
 Ava Chadbourne, *Education*.  
 H. M. Ellis, *English*.  
 Guy Thompson, *English*.  
 J. B. Segall, *French*.  
 F. J. Kueny, "  
 Robert R. Drummond, *German*.  
 J. H. Huddilston, *Ancient History and Art*.  
 Caroline Colvin, *History*.  
 A. A. Whitmore, "  
 G. D. Chase, *Latin*.  
 J. N. Hart, *Mathematics*.  
 H. R. Willard, *Mathematics*.  
 M. O. Tripp, *Mathematics*.  
 Capt. L. R. James, *Military*.  
 A. W. Sprague, *Music*.  
 Wallace Craig, *Philosophy*.  
 Geo. L. Rider, *Physical Education*.  
 Willis W. Harriman, *Public Speaking*.  
 J. S. Stevens, *Physics*.  
 A. L. Fitch, *Physics*.  
 Arthur G. Hisdreth, *Physics*.  
 Roy M. Peterson, *Spanish and Italian*.  
 23 Instructors.

## FACULTY OF AGRICULTURE.

## Professors :

- Herbert Hiss, *Agricultural Education*.  
 Roy F. Thomas, "  
 George E. Simmons, *Agronomy*.  
 Ben C. Helmick, "  
 L. S. Corbett, *Animal Industry*.  
 L. M. Dorsey, "  
 F. L. Russell, *Bacteriology and Veterinary Science*.  
 H. W. Smith, *Bacteriology and Veterinary Science*.  
 L. H. Merrill, *Biological and Agricultural Chemistry*.

**Post-Graduate Courses.**—Post-Graduate students accepted for work leading to the degrees of M.A., M.S., LL.M.

**Libraries.**—The University Libraries contain about 65,000 volumes, of which about 55,000 are in the General Library, 4,700 in the Agricultural Experiment Station Library, and 5,500 in the Law Library. Miss E. G. Wigmore, A.B. (*in charge*); Miss H. M. De Rhodes, B.A. (*Assistant*); Miss M. Moore (*Assistant*).

**Museum of Natural History.**—Mintin Asbury Chrysler, *Curator of the Botanical and Zoological Collections*. Lucius Herbert Merrill, *Curator of the Geological Collections*.

**Societies.**—American Chemical Society.

- American Institute of Electrical Engineers.  
 American Society of Mechanical Engineers.  
 Alpha Chi Sigma.

## Professors—Continued :

- John M. Briscoe, *Forestry*.  
 Frances R. Freeman, *Home Economics*.  
 Dorothea Beach, "  
 Laura Anderson, "  
 H. P. Sweetser, *Horticulture*.  
 Richard T. Muller, "  
 4 Instructors.

## FACULTY OF TECHNOLOGY.

## Professors :

- C. A. Brautlecht, *Chemistry*.  
 B. F. Brann, "  
 Edward F. Rathjen, "  
 H. S. Boardman, *Civil Engineering*.  
 E. H. Sprague, "  
 A. C. Lyon, "  
 H. W. Leavitt, "  
 W. E. Barrows, *Electrical Engineering*.  
 A. S. Hill, "  
 W. J. Sweetser, *Mechanical Engineering*.  
 B. C. Kent, *Mechanical Engineering*.  
 C. P. Weston, *Mechanics and Drawing*.  
 A. L. Grover, "  
 C. M. Curl, "  
 13 Instructors.

## FACULTY OF LAW.

## Professors :

- C. W. Peabody, *Law*.  
 Stacy C. Lanpher, *Law*.  
 7 Instructors and Lecturers.

## FACULTY OF INVESTIGATION

## MAINE AGRICULTURAL EXP. STATION

- Director.*—C. D. Woods.  
*Chemist.*—J. M. Bartlett.  
*Assistant Pathologist.*—D. Folsom.  
*Assistant Biologist.*—J. W. Gowen.  
*Seed Analyst.*—R. L. Hammond.  
*Plant Pathologist.*—W. J. Morse.  
*Entomologist.*—Miss E. M. Patch.  
*Col. Biologist.*—R. Pearl.  
*Assistant Chemist.*—E. R. Tobey.  
*Assistant Chemist.*—C. H. White.  
*Assistant Biologist.*—J. Zimm.

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—C. D. Woods.

OTAGO UNIVERSITY. *See* DUNEDIN.

OTTAWA (Canada).

THE ROYAL SOCIETY OF CANADA, Ottawa, Canada. (1882.)

Founder: His Grace the Duke of Argyll, K.T., etc.  
(When Governor-General of Canada in 1882.)

OFFICERS FOR 1919-1920.

*Honorary Patron.*—His Excellency The Duke of Devonshire, K.G., etc., etc.

*President.*—R. F. Ruttan, M.D., C.M., D.Sc.

*Vice-President.*—A. P. Coleman, M.A., Ph.D., F.R.S.

*Hon. Secretary.*—D. C. Scott.

*Hon. Treasurer.*—(Vacant.)

*Hon. Librarian.*—D. B. Dowling, B.Sc.

OFFICERS OF SECTIONS.

Section I.—*Littérature Française, Histoire, Archéologie, Sociologie, Economie, Politique et Sujets Connèxes.*

*President.*—V. Morin.

*Vice-President.*—E. Myrand.

*Secrétaire.*—C. M. Barbeau.

Section II.—*English Literature, History, Archeology, Sociology, Political Economy, and Allied Subjects.*

*President.*—W. L. Grant, M.A.

*Vice-President.*—Brig.-General E. A. Cruikshank, LL.D.

*Secretary.*—L. J. Burpee, F.R.G.S.

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*Assistant Chief Astronomer.*—E. M. Stewart.

*Astronomers* (in charge of Solar Physics): Ralph E. De Lury, J. L. O'Connor.

*Meridian Circle.*—R. M. Stewart, C. C. Smith, O. B. Nugent, W. S. McClenahan.

*Photographic Photometry.*—R. M. Motherwell.

*Astrophysics.*—S. P. Henderson, F. Henroteau.

*Visual Photometry.*—R. J. McDiarmid.

*Seismology.*—E. A. Hodgson.

*Terrestrial Magnetism.*—C. A. French.

2 Assistant Astronomers, 1 Computer, 1 Assist. Magnetician, 1 Electrician, 1 Assist. Seismologist.

*Editor.*—J. Macara,

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J. Carter, M.A.

## Degrees conferred :

*Degrees.**Hoods.*

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B.Ch. - -	Dark blue silk, lined white fur.
B.C.L. - -	Bright blue silk, lined white fur.
B.D. - -	Black cloth, lined black corded silk.
B.Litt. - -	Same as B.C.L.
B.Sc. - -	Same as B.C.L.
B.M. - -	Same as B.Ch.
B.Mus. - -	Mauve silk, lined white fur.
D.C.L. - -	Scarlet cloth, lined crimson silk.
D.D. - -	Scarlet cloth, lined black cloth.
D.Litt. - -	Scarlet cloth, lined neutral-grey silk.
D.Sc. - -	Same as D.Litt.
D.M. - -	Same as D.C.L.
D.Mus. - -	Cream-coloured brocade, lined cherry satin.
M.A. - -	Black silk, lined crimson silk.
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W. H. V. Reade.  
A. S. Owen.  
Rev. F. W. Matheson.  
Rev. K. E. Kirk.  
Rev. D. C. Simpson.

**Lecturers :**

F. G. Champernowne, *Jurisprudence*.  
R. L. Ottley.

## NON-COLLEGIATE STUDENTS.

*Censor*.—Richard W. M. Pope, D.D.

## Tutors and Lecturers :

J. B. Baker.  
W. G. Kendrew.  
G. E. Underhill, *Literæ Humaniores*.  
C. C. J. Webb                     "  
B. J. Kidd, *Theology*.  
J. F. Stenning, *Hebrew*.  
J. B. Baker, *Modern History*.  
F. Y. Eccles, *English Language and Literature*.

## Tutors and Lecturers—Continued :

H. A. Smith, *Jurisprudence*.  
G. C. Cheshire                     "  
G. S. F. C. Kaeckenbeeck, *Jurisprudence*.  
C. H. Thompson, *Mathematics*.  
C. E. Haselfoot, *Physics*.  
F. A. Dixey, *Physiology*.  
F. D. Chattaway, *Chemistry*.  
R. W. Jeffrey, *Modern History*.  
Rev. G. C. Richards, *Classics*.

## CAMPION HALL.

*Master*.—Rev. Charles Dominic Plater, M.A.

## Libraries.—

Bodleian Library. *Librarian* : F. Madan, M.A.  
Radcliffe Library. *Librarian* : W. H. Jackson, M.A., D.Sc.  
Taylor Institution. *Librarian* : H. Krebs, Hon. M.A.  
Hope Collection of Books. *Keeper* : C. F. Bell, M.A.  
Indian Institute. *Librarian* : J. Morrison, Hon. M.A.

## Museums, etc.—

Ashmolean Museum. *Keeper* : D. Hogarth, M.A., D.Litt. *Keeper of Art Galleries* : C. F. Bell, M.A.  
University Museum. *Secretary* : H. L. Bowman, M.A., D.Sc.  
Botanic Garden. *Curator of Herbarium* : G. C. Druce, Hon. M.A.  
University Observatory. *Director* : H. H. Turner, M.A., D.Sc.

## AFFILIATED INSTITUTIONS.

St. David's College, Lampeter.  
University College, Nottingham.  
University College, Reading.  
Hartley University College, Southampton.  
Exeter Diocesan Training College.  
Royal Albert Memorial University College, Exeter.  
The University of the Cape of Good Hope.  
"       "       Sydney.  
"       "       Calcutta.  
"       "       the Punjab.  
"       "       Bombay.  
"       "       Adelaide.  
"       "       Madras.  
"       "       Melbourne.  
"       "       New Zealand.  
"       "       Allahabad.  
"       "       Toronto.  
McGill University, Montreal.  
The University of Tasmania.  
"       "       New Brunswick.  
"       "       Malta.  
"       "       King's College, Windsor, Nova Scotia.

Dalhousie University, Halifax, Nova Scotia.  
Mt. Allison College, Sackville, New Brunswick.  
Acadia University, Wolfville, Nova Scotia.  
The University of Manitoba, Winnipeg.  
The University of Queen's College, Kingston, Ontario.  
Laval University, Quebec.  
McMaster University, Toronto.  
The University of St. Joseph's College, St. Joseph, New Brunswick.  
The University of Bishop's College, Lennoxville, Canada.  
The University of Ottawa.  
"       "       Saskatchewan.  
"       "       Queensland.  
"       "       Alberta.  
The University of St. Francis Xavier's College, Nova Scotia.  
The University of Western Australia.

## Recognized Societies.—

Lady Margaret Hall (1878). *Principal* : Miss H. Jex-Blake.  
Somerville College (1879). *Principal* : Miss E. Penrose, M.A.  
St. Hugh's College (1886). *Principal* : Miss E. F. Jourdain.  
St. Hilda's Hall (1893). *Principal* : Miss C. M. E. Burrows.  
Society of Oxford Home Students. *Principal* : Mrs. A. H. Johnson.

**MANCHESTER COLLEGE, Oxford. (1786.)**

Manchester College is non-sectarian, and no profession or particular doctrine is required either from teachers or students. Theology is studied as a science, and complete liberty of thought is regarded as one of the fundamental principles of the College.

*Terms* : As Oxford University.

**OFFICIAL.**

*Principal*.—L. P. Jacks, M.A., D.D., LL.D.

**PROFESSORS.**

Rev. D. C. Simpson, *Old Testament*.

Rev. H. Gow, *New Testament*.

B. W. Bacon     "     "

Lachlan Macrae, *History of Doctrine*.

F. Watson, *Philosophy of Education*.

**Library**.—Devoted mainly to Philosophy and Theology. *Librarian* : Lachlan Macrae.

**MANSFIELD COLLEGE, Oxford. (1886.)**

A Theological College, under Congregational control, open to theological students of all churches. The normal course is three years. Only graduates of recognized Universities are admitted.

*Terms* : As Oxford University.

*Students* : 35.

**OFFICIALS.**

*Principal*.—Rev. W. B. Selbie, D.D.

*Bursar*.—N. H. Smith, M.A.

*Chaplain*.—Rev. N. Micklem.

**PROFESSORS.**

Rev. W. B. Selbie, *Theology*.

Rev. J. B. Bartlett, *Church History*.

Rev. G. B. Gray, *Hebrew and Old Testament*.

Rev. C. H. Dodd, *New Testament and Exegesis*.

**PACIFIC, COLLEGE OF THE. See SAN JOSÉ.**

**PASADENA (California).**

**MOUNT WILSON OBSERVATORY** of the Carnegie Institution of Washington.

*Address* : Pasadena, California.

**RESEARCH STAFF.**

*Director*.—George Ellery Hale.

*Assistant Director*.—Walter S. Adams.

*Secretary*.—Alfred H. Joy.

*Solar Physics* : George E. Hale, Charles E. St. John, Frederick H. Seares, Ferdinand Ellerman, Seth B. Nicholson, Adriaan van Maanen, Frederick S. Brackett.

*Stellar Spectroscopy* : Walter S. Adams, Alfred H. Joy, John C. Duncan, Gustaf Strömberg, Paul W. Merrill, R. F. Sanford.

*Stellar Photometry* : Frederick H. Seares, Harlow Shapley.

*Nebulae and Star Clusters* : Harlow Shapley, Francis G. Pease, John C. Duncan, Adriaan van Maanen, Edwin P. Hubble.

*Trigonometrical Parallaxes* : Adriaan van Maanen.

*Physical Laboratory* : Arthur S. King, Superintendent; J. A. Anderson, Harold D. Babcock, Charles E. St. John, Paul W. Merrill.

*Research Associates* : Professor J. C. Kapteyn of the University of Groningen; Professor A. A. Michelson of the University of Chicago.

*Computing Division* : Frederick H. Seares, Superintendent; Louise Ware, Cora G. Burwell, Bertha M. Saunway, Coral Wolfe, Myrtle L. Richmond, Addie L. Miller, Mary C. Joyner, Ada M. Brayton, G. Mary Ritchie, Lois M. Keener, Dorothy Hubbard.

6 Volunteer and Part Time Assistants, 4 Assistant Observers.

## PATIALA.

MOHINDRA COLLEGE, Patiala. (1875.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 335.

## OFFICIAL.

*Principal*.—Man Mohan, M.A.

## PROFESSORS.

B. Ram, *Mathematics*.K. K. Mukerjee, *Philosophy*.A. K. Sharma, *Philosophy*.A. T. Ramaniya Acharya, *English*.Kishori Lal, *History*.D. Dass, *Mathematics*.M. R. Kohli, *Economics*.

3 Lecturers for Oriental Languages.

**Post-Graduate Courses**.—In Mathematics.**Libraries**.—The College Library contains about 4,000 books. *Librarian* : A. K. Sherma.

## PATNA (India).

BEHAR NATIONAL COLLEGE, Patna, India. (1889.)

*Terms* : One a year.*Students* : 840.

## OFFICIAL.

*Principal*.—D. N. Sen, M.A., I.E.S.

## PROFESSORS.

G. P. Hazari, *Philosophy*.L. K. Ghosh, *Mathematics*.M. Haque, *English*.

C. Mittra

H. C. R. Chaudhary, *History*.B. K. Chaudhary, *Chemistry*.D. K. Bhattacharyya, *Physics*.J. Chatterjee, *Physics*.S. G. Taqi, *Persian and Arabic*.A. Thakur, *Sanskrit*.

16 Lecturers, 5 Assistants.

PENNSYLVANIA STATE COLLEGE. *See* STATE COLLEGE.

PERADENIYA ROYAL BOTANIC GARDENS. No particulars received.

PERAK MUSEUM. *See* TAIPING.

## PERTH (Western Australia).

UNIVERSITY OF WESTERN AUSTRALIA, Perth, W. Australia. (1911.)

*Terms* : Three per year.*Students* : 406.*Budget* (1920):

Receipts .. .. . £17,245.

Expenditure .. .. . £18,083.

## OFFICIALS.

*Visitor*.—The Governor of the State of W. Australia, His Excellency the Rt. Hon.

Sir W. G. Ellison-Macartney, P.C., K.C.M.G.

*Chancellor*.—His Grace the Most Rev. C. O. L. Riley, M.A., D.D., V.D.*Pro-Chancellor*.—C. Andrews, M.A.*Warden of Convocation*.—J. S. Battye, B.A., LL.B.*Vice-Chancellor*.—J. W. Paterson, B.Sc., Ph.D.**Degrees conferred**.—B.A., M.A., B.Sc., D.Sc., B.E., M.E., LL.B., LL.D., Mus.Bac., Mus.Doc., M.B., M.D., B.S.**Hoods**.—Arts, royal blue; Science, emerald green; Engineering, gold; Law, royal purple; Music, peacock blue; Medicine, ruby red; Surgery, ruby red.



## PROFESSORS.

## Professors :

W. J. Dakin, *Biology*.  
 W. L. F. Murdoch, *English*.  
 J. W. Paterson, *Agriculture*.  
 A. D. Ross, *Mathematics and Physics*.  
 E. O. G. Shann, *History and Economics*.  
 H. E. Whitfeld, *Mining and Engineering*.  
 N. T. M. Wilsmore, *Chemistry*.  
 W. G. Woolnough, *Geology*.

## Lecturers :

G. Wood, *Latin and Greek*.  
 M. Aurousseau, *Geology*.  
 A. Cayzer, *Biology*.  
 R. C. Gray, *Mathematics and Physics*.  
 E. J. Wilson, *French and German*.  
 G. Tattersall, *Chemistry*.

## Lecturers—Continued :

H. W. Sanders, *Mathematics and Physics*.  
 A. Tomlinson, *Engineering*.

## Associate Lecturers :

P. H. Fraenkel, *Electrical Engineering*.  
 W. J. Rooney, *Education*.  
 L. D'Ery (Miss), *French*.  
 G. M. Nunn, *Surveying*.  
 E. A. Le Souef, *Veterinary Science*.  
 Rev. G. N. Dods, *Logic and Ancient Philosophy*.  
 Rev. F. E. Ozer, *Psychology*.  
 R. Bleazby, *Railway Engineering*.  
 H. Beasley, *Architecture*.  
 W. McLagan, *Mechanical Drawing*.

**Post-Graduate Courses.**—Leading to M.A., D.Litt., M.Sc., D.Sc., M.E.

*Librarian* : A. Cayzer, B.Sc.

## AFFILIATED INSTITUTIONS.

Perth Technical School.

W. Australia School of Mines, Kalgoorlie.

## PESHAWAR (Punjab).

**EDWARDES COLLEGE**, Peshawar, Punjab. (1855.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 60.

## OFFICIALS.

*Principal*.—Canon J. A. Wood, M.A.

*Officiating Principal*.—Rev. A. C. Clarke, M.A.

## PROFESSORS.

J. A. Wood, *English*.  
 A. C. Clarke, "  
 H. M. Husain, "  
 T. Bomford, *History*.  
 Jai Dayal, *Mathematics*.  
 Ghulam Husain, *History*.

Ahmal Husain, *Philosophy*.  
 M. A. Aziz, *Arabic and Persian*.  
 M. A. M. Khan, "  
 Pt. N. Lal, *Sanskrit*.  
 G. Thomas, *English History*.

## PHILADELPHIA (Pennsylvania).

**UNIVERSITY OF PENNSYLVANIA.** No particulars received.

**THE WISTAR INSTITUTE OF ANATOMY AND BIOLOGY**, Philadelphia, Pa. (1808.)

Devoted to researches in Anatomy, with special reference to Neurology, Genetics and Bio-Chemistry.

*Terms* : Open every day in the year.

*Students* : No undergraduates admitted.

## OFFICIAL.

*Director*.—Milton J. Greenman.

## PROFESSORS.

## Professor :

H. H. Donaldson, *Neurology*.

## Assistant Professors :

H. D. King, *Embryology*.  
 S. Hatai, *Neurology*.

1 Instructor, 3 Fellows, and 1 Research Assistant.

*Librarian* : C. N. Perine.

*In charge of publications:* C. B. Vaux.

Publishes the following periodicals:

Journal of Morphology.  
The Journal of Comparative Neurology.  
The American Journal of Anatomy.  
The Anatomical Record.  
The Journal of Experimental Zoology.  
The American Anatomical Memoirs.

**PHILADELPHIA COLLEGE OF PHARMACY**, 145 North 10th Street, Philadelphia, Pa.  
(1821.)

The Philadelphia College of Pharmacy is the oldest institution of its kind in the United States.

It is one of the few independent Colleges of Pharmacy in the United States. Many other Schools of Pharmacy are connected with State Universities.

It is a Co-educational School, a large number of women are numbered among its graduates.

*Terms:* Two per year.

*Students:* 500.

OFFICIALS.

*President.*—H. B. French.  
*First Vice-President.*—R. V. Mattison.  
*Second Vice-President.*—J. L. Lemberger.  
*Corresponding Secretary.*—A. W. Miller.  
*Recording Secretary.*—C. A. Weidmann.

**Degrees conferred.**—Ph.G., B.Sc., Phar.B., Phar.D., P.C.

PROFESSORS.

**Professors:**

C. H. La Wall (Dean), *Theory and Practice of Pharmacy.*  
E. F. Cook, *Operative Pharmacy.*  
F. X. Moerk, *Analytical Chemistry.*  
F. P. Stroup, *General Chemistry.*  
J. W. Sturmer, *Pharmaceutical Chemistry.*

**Professors—Continued.**

H. W. Youngken, *Botany and Pharmacology.*  
C. B. Lowe, *Materia Medica.*

**Acting Professor:**

L. Gershenfeld, *Bacteriology and Hygiene.*

8 Instructors, 3 Lecturers, 2 Assistants.

**Post-Graduate Courses.**—Leading to B.Sc., Phar.B., P.C., and Phar.D.

**Library.**—About 15,000 volumes. *Librarian:* Miss Bonsall.

**Publication.**—American Journal of Pharmacy.

**THE DROPSIE COLLEGE FOR HEBREW AND COGNATE LEARNING**,  
S.E. Cor. Broad and York Streets, Philadelphia, Pa. (1908.)

*Terms:* Four per year. *Students:* Graduates and Specials, 38.

*Budget* (May, 1918, to May, 1919): \$40,140.00.

OFFICIALS.

*President of the College.*—Dr. C. Adler.  
*Vice-President.*—Hon. M. Sulzberger.  
*Secretary of the Board of Governors.*—E. Lederer.  
*Secretary of the Faculty.*—Prof. M. L. Margolis.  
*Treasurer of the College.*—Horace Stern.

**Degree conferred.**—Ph.D.; Colour, blue and gold.

2 Professors and 5 Instructors.

**Library.**—19,492 volumes. *Assistant Librarian:* Dr. J. Reider.

**Publications.**—Jewish Quarterly Review.

**AMERICAN PHILOSOPHICAL SOCIETY**, Independence Square, Philadelphia, Pa.  
(1727.)

The oldest learned society in America. Founded by Benjamin Franklin. Membership is by election. Fifteen American members elected annually.

OFFICERS.

*President.*—W. B. Scott, D.Sc., LL.D., of Princeton, New Jersey.

*Vice-Presidents.*—

G. E. Hale, Sc.D., Ph.D., LL.D., of Pasadena, California.

A. A. Noyes, Ph.D., Sc.D., LL.D., of Cambridge, Massachusetts.

H. L. Carson, M.A., LL.D., of Philadelphia.

*Secretaries.*—

I. Minis Hays, A.M., M.D., of Philadelphia.

A. W. Goodspeed, A.B., Ph.D., of Philadelphia.

H. F. Keller, Nat.Ph.D., of Philadelphia.

B. M. Davis, A.M., Ph.D., of Philadelphia.

*Treasurer.*—H. La Barre Jayne, A.B., of Philadelphia.

*Meetings.*—Ordinary meetings are held monthly from October to May (inclusive). The Annual General Meeting is held in April.

*Library.*—70,000 volumes relating to the sciences.

*Publications.*—Transactions, 4to., Volumes I. to VI. New Series, Volumes I. to XXII. Proceedings, 8vo., Volumes I. to LVIII.

**ACADEMY OF NATURAL SCIENCES**, Logan Square, Philadelphia, Pa. (1812.)

The oldest Scientific Society in America.

*Recording Secretary and Librarian.*—E. J. Nolan.

*Corresponding Secretary.*—J. P. Moore.

*Publications.*—Journal, Proceedings.

**THE ZOOLOGICAL SOCIETY OF PHILADELPHIA**, Fairmount Park, Philadelphia, Pa. (1812.)

Members, 1,400.

Income .. \$118,532.37      Expenditure .. \$118,663.94

OFFICIALS.

*President.*—C. B. Penrose, M.D.

*Vice-President.*—C. C. Febiger.

*Secretary.*—W. B. Cadwalder, M.D.

*Treasurer.*—C. S. W. Paekard.

*Superintendent of the Garden.*—C. Emerson Brown.

*Pathologist.*—H. Fox, M.D., and 2 Assistants.

Publishes an Annual Report.

**THE FRANKLIN INSTITUTE OF THE STATE OF PENNSYLVANIA**,

15, South Seventh Street, Philadelphia, Pa.

The Franklin Institute of the State of Pennsylvania for the Promotion of the Mechanic Arts was organized in the year 1824, to meet a demand in America for an institution similar to that founded by Count Rumford in London in 1799. The founders intended it not only as an appropriate memorial to the name of Franklin, but as a means of continuing for all time a work which throughout his long life he perhaps regarded as his best, namely, the discovery of physical and natural laws and their application to increase the well-being and comfort of mankind. Membership, 1,500.

*President.*—W. Clark.

*Vice-Presidents.*—H. Howson, Coleman Sellers, jr.

*Secretary.*—R. B. Owens.

Weekly lectures on scientific and technical subjects are given throughout the winter season; the Journal of the Franklin Institute has been published monthly since 1826; monthly meetings are held at which recent discoveries in physical science and important engineering achievements are discussed, and major inventions described. The membership is divided into the following sections, each group devoting its attention to the branch of technology for which it is organized: Chemistry, Mining, Metallurgy, Astronomy, Physics, and Engineering.

*Library.*—73,511 volumes, 15,143 pamphlets, 2,289 maps and charts, and 1,336 photographs. Complete sets of over 600 of the leading scientific and technical publications of the world. *Librarian*: A. Rigling.

**THE PHILADELPHIA MUSEUMS**, Commercial Museum, 34th Street below Spruce, Philadelphia, Pa. (1894.)  
With Foreign Trade Bureau.

*Budget* (1918):

Total Income .. ..	\$175,168.15.
Total Expenditure .. ..	171,685.74.

## OFFICIALS.

*Director*.—W. P. Wilson, Sc.D.*Secretary*.—W. H. Schoff, A.M.*Curator*.—C. R. Toothaker.*Chief of Foreign Trade Bureau*.—D. Bartlett.**Library**.—40,727 books and 70,149 pamphlets. *Librarian* : J. J. Macfarlane, A.M.

## OFFICERS OF BOARD OF TRUSTEES.

*President*.—S. L. Wright.*Vice-President*.—H. B. French.*Treasurer*.—D. Baugh.

The Commercial Museum comprises collections illustrating the production and commerce of all nations. A Bureau of Information collates all available data regarding the subject of foreign trade and distributes upon application reports tending to the extension of American trade abroad.

A free commercial technical library is also maintained by the Board, bearing particularly on the subjects of international trade, production, transportation, banking, economics, and municipal affairs. It also contains trade directories of the leading cities and countries of the world, including all cities in the United States with a population of 100,000 or over, and in their special lines possessing more reference than any other known collection.

There are also extensive exhibits, illustrating the ethnology and productions of Mexico, the Central and South American Republics, West Indies, East and West Africa, Madagascar, India, and Ceylon, the Straits Settlements, Indo-China, Siam, Siberia and Oceania.

**PIETERMARITZBURG (South Africa).****NATAL UNIVERSITY COLLEGE**, Pietermaritzburg, Natal. (1910.)

A Constituent College of the University of South Africa, along with the colleges: Rhodes, Grahamstown; Grey, Bloemfontein; Huguenot, Wellington; Transvaal, Pretoria; and School of Mines and Technology, Johannesburg.

*Terms* : Two per year.*Students* : 120.*Budget* : Grants from Government of the Union of South Africa and local revenue (mainly fees.)**Degrees and Hoods**.—As University of South Africa.

## PROFESSORS.

A. Patrie, *Classics*.O. Waterhouse, *English and Philosophy*.G. Besselaar, *Modern Languages*.W. N. Roseveare, *Mathematics*.R. B. Denison, *Chemistry*.J. W. Bews, *Botany and Geology*.E. Warren, *Zoology*.

5 Lecturers.

**Post-Graduate Courses**.—M.A. and M.Sc., for which degrees a thesis may be presented as part of the examination.

**Library**.—College Library. *Librarian* : A. F. Hattersley, M.A.**PITTSBURGH (Pennsylvania).****UNIVERSITY OF PITTSBURGH**, Pittsburgh, Pa. (1787.)*Terms* : Two per year.*Students* (1919-1920): 4,756.

Total Expenditure (1917-1918): \$1,045,988.76.



# OFFICERS.

*President, Board of Trustees.*—G. H. Clapp.  
*Chancellor.*—S. B. McCormick.  
*Secretary.*—S. B. Linhart.  
*Registrar.*—J. G. Quick.  
*Librarian.*—B. A. Swope.

# PROFESSORS.

## THE COLLEGE.

### Professors :

J. C. Fettermann (Dean), *Biology*.  
 F. Schlesinger, *Astronomy*.  
 O. E. Jennings, *Botany*.  
 L. R. Gibbs, *English Language and Literature*.  
 S. B. Linhart, *Ethics and History of Religion*.  
 R. H. Johnson, *Geology*.  
 J. F. L. Raschen, *German Language and Literature*.  
 H. S. Scribner, *Greek Language and Literature*.  
 H. J. Webster, *History*. [ture.  
 E. T. Sage, *Latin Language and Literature*.  
 J. M. Mecklin, *Philosophy*.  
 A. E. Ortman, *Physical Geography*.  
 C. N. Wenrich, *Physics*.  
 J. H. White, *Psychology*.  
 F. H. Lane, *Public Speaking*.  
 W. H. Shelton, *Romance Languages and Literature*.  
 L. E. Griffin, *Zoology*.  
 W. P. Webber, *Mathematics*.  
 F. A. Foraker ,,

### Assistant Professors :

A. B. Wallgren, *Biology*.  
 W. H. Emig, *Botany*.  
 J. K. Miller, *English*.  
 J. Valente ,,  
 A. P. James, *History*.  
 G. G. Becknell, *Physics*.  
 W. B. Pietenpol ,,  
 J. C. Coulson ,,  
 A. M. Snyder, *Psychology*.  
 R. H. Johnson, *Romance Languages*.  
 2 Lecturers, 27 Instructors.

## THE SCHOOL OF ECONOMICS.

### Professors :

A. B. Wright (Acting Dean), *Political Science*.  
 C. P. Reittel, *Accounting*.  
 G. P. Eckels ,,  
 F. N. Thorpe, *Political Science and Constitutional Law*.  
 F. D. Tyson, *Sociology*.

### Assistant Professors :

H. C. Kidd, *Economics*.  
 L. K. Manley, *Economics*.  
 M. Jones, *Finance*.  
 C. Arnold, *Journalism*.  
 3 Instructors.

## THE SCHOOL OF EDUCATION.

### Professors :

W. G. Chambers (Dean), *Education*.  
 M. Smith, *Childhood Education*.  
 J. H. Kelley, *Education*.  
 G. E. Jones ,,  
 S. B. Davis ,,  
 G. C. Basset, *Educational Psychology*.  
 W. H. Klar, *Fine and Industrial Arts*.  
 A. M. Jones, *Household Arts*.  
 W. Earhart, *Music*.  
 T. W. Burekhalter, *Physical Education*.  
 T. J. Kirby, *Secondary Education*.  
 A. S. Hurrell, *Vocational Education*.  
 M. Shepard (Miss), *Physical Education*.

### Assistant Professors :

A. M. Carmalt (Mrs.), *Elementary Education*.  
 M. E. Stover (Miss), *Household Arts*.  
 F. C. Clayter, *Industrial Arts*.  
 K. Foulke (Miss), *Secondary Education*.  
 3 Lecturers, 28 Instructors.

## THE SCHOOL OF ENGINEERING.

### Professors :

F. L. Bishop (Dean), *Physics*.  
 J. H. Smith, *Civil Engineering*.  
 L. H. Harris, *Electrical Engineering*.  
 H. E. Dyche ,,  
 R. T. Stewart, *Mechanical Engineering*.  
 L. E. Endsley, *Railway Mechanical Engineering*.  
 M. Knowles, *Sanitary Engineering*.  
 G. W. Case, ,,  
 J. S. Lambie, *Civil Engineering*.  
 L. W. McIntyre ,,  
 J. Weber, *Mechanical Engineering*.

### Assistant Professors :

L. C. McCandliss, *Civil Engineering*.  
 G. I. Mitchell, *Electrical Engineering*.  
 W. W. Boyle, *Mechanical Engineering*.  
 5 Instructors.

## SCHOOL OF MINES.

### Professors :

H. B. Meller (Dean), *Mining*.  
 H. Leighton, *Economic Geology*.  
 R. H. Johnson, *Geology, Oil, and Gas Production*.  
 S. L. Goodale, *Metallurgy*.  
 R. E. Somers, *Oil and Gas Production*.  
 H. C. Ray, *Ore Dressing*.

### Associate Professor :

R. M. Black, *Mining*.  
 1 Lecturer, 2 Instructors.

### THE SCHOOL OF CHEMISTRY.

#### Professors :

- R. F. Bacon (Dean), *Chemistry*.  
A. Silverman, *Chemistry*.

#### Assistant Professors :

- L. Jenks, *Analytical Chemistry*.  
A. Lowy, *Organic Chemistry*.  
G. Stegeman, *Physical Chemistry*.  
5 Instructors.

### THE GRADUATE SCHOOL.

*Acting Dean*.—R. F. Bacon.

#### Professors :

- R. Retzer, *Anatomy*.  
F. Schlesinger, *Astronomy*.  
J. C. Fettermann, *Biology*.  
O. E. Jennings, *Botany*.  
H. Leighton, *Economic Geology*.  
W. G. Chambers, *Education*.  
L. R. Gibbs, *English Language and Literature*.  
H. C. Kidd, *Finance and Economics*.  
R. H. Johnson, *Geology*.  
J. F. L. Raschen, *German Language and Literature*.  
H. S. Scribner, *Greek Language and Literature*.  
H. J. Webster, *History*.  
A. Silvermann, *Inorganic Chemistry*.  
E. T. Sage, *Latin Language and Literature*.  
S. L. Goodale, *Metallurgy*.  
H. B. Meller, *Mining*.  
H. C. Ray, *Ore Dressing*.  
E. H. Balz, *Organic Chemistry*.  
A. E. Ortman, *Paleontology and Geography*.  
O. Klotz, *Pathology and Bacteriology*.  
J. M. Mecklin, *Philosophy*.  
C. N. Wenrich, *Physics*. [*macology*.]  
C. C. Guthrie, *Physiology and Pharmacy*.  
F. N. Thorpe, *Political Science*.  
J. H. White, *Psychology*.  
W. O. Farnsworth, *Romance Languages and Literatures*.  
T. J. Kirby, *Secondary Education*.  
F. D. Tyson, *Sociology*.  
L. E. Griffin, *Zoology*. [*tion*.]  
S. B. Davis, *Educational Administration*.

#### Assistant Professors :

- A. B. Wallgren, *Biology*.  
E. H. Emig, *Biology*.  
J. K. Miller, *English*.  
F. A. Foraker, *Mathematics*.  
W. P. Webber  
A. M. Snyder, *Psychology*.  
3 Instructors.

### THE SCHOOL OF MEDICINE.

#### Professors :

- R. R. Huggins (Dean), *Gynecology*.  
D. Hooker, *Anatomy*.

#### Professors—Continued :

- W. L. Holman, *Bacteriology*.  
C. Jackson, *Laryngology and Rhinology*.  
J. D. Heard, *Medicine*.  
T. M. T. McKennan, *Neurology*.  
W. W. Blair, *Ophthalmology*.  
D. Silver, *Orthopedic Surgery*.  
E. W. Day, *Otology*.  
O. Klotz, *Pathology*.  
O. M. Edwards, *Pediatrics*.  
T. J. Elterich  
C. C. Guthrie, *Physiology and Pharmacology*.  
W. K. Walker, *Psychiatry*.  
G. C. Johnston, *Roentgenology*.  
J. J. Buchanan, *Surgery*.  
R. T. Miller, *Surgery*.  
C. C. Macklin, *Anatomy*.  
R. R. Huggins, *Gynecology*.  
E. J. Patterson, *Laryngology and Rhinology*.  
J. A. Lichty, *Medicine*.  
B. A. Cohoe  
J. I. Johnston  
T. Diller, *Neurology*.  
E. T. W. Way, *Otology*.  
E. E. Mayer, *Psychiatry*.  
G. L. Hays, *Surgery*.

#### Assistant Professors :

- H. N. Gould, *Anatomy*.  
E. A. Weiss, *Gynecology*.  
H. N. Gould, *Histology and Embryology*.  
J. H. McCready, *Laryngology and Rhinology*.  
I. J. Moyer, *Medicine*.  
H. G. Schleiter  
T. G. Simonton  
C. H. Henninger, *Neurology*.  
S. S. Smith, *Ophthalmology*.  
J. O. Wallace, *Orthopedic Surgery*.  
J. R. Simpson, *Otology*.  
W. W. G. MacLachlan, *Pathology*.  
H. T. Price, *Pediatrics*.  
A. Rohde, *Physiological Chemistry*.  
E. W. Meredith, *Surgery*.  
P. R. Sieber  
J. C. Burt  
W. O. Sherman  
3 Lecturers, 48 Instructors.

### THE SCHOOL OF LAW.

#### Professors :

- Hon. J. D. Shafer (Dean), *Real Property and Legal History*.  
R. H. Hawkins, *Common Pleas Practice, Equity Pleading and Practice, Bankruptcy and Real Estates*.  
A. M. Thompson, *Constitutional Law and Corporations*.  
J. A. Crane, *Contracts, Agency, Conflict of Laws, Partnership and Insurance*.

**Professors—Continued :**

- R. A. Applegate, *Criminal Law*.  
 R. W. Martin, *Criminal Law and Procedure*.  
 E. W. Marshall, *Equity and Real Property*.  
 J. C. Gray, *Evidence and Torts*.  
 E. Englert, *History of Procedure, History of Property and Damages*.  
 Hon. J. R. Macfarlane, *Negotiable Instruments*.  
 Hon. J. J. Miller, *Orphan's Court Practice, Wills and Decedents' Estates, Legal Ethics*.  
 G. J. Thompson, *Public Utilities*.  
 J. G. Houston, *Real Property and Contracts, and Domestic Relations*.  
 J. G. Buchanan, *Restraint of Trade*.  
 J. T. Duff, *Torts and Bailments*.  
 E. Englert, *Common Law, Pleading*.  
 J. S. Christy, *Evidence*.  
 1 Instructor.

**THE SCHOOL OF DENTISTRY.**

**Professors :**

- H. E. Friesell (Dean), *Operative Dentistry*.  
 S. L. McCurdy, *Anatomy, Oral and General Surgery*.  
 J. S. Ashbrook, *Dental Anatomy, Dental Medicine, and Comparative Anatomy*.  
 W. L. Fickes, *Dental Ceramics, Dental History, and Oral Hygiene*.  
 O. L. Hertig, *Dental Pathology, and Therapeutics and Operative Clinician*.  
 C. R. Jones, *General Pathology, Materia Medica, and Therapeutics*.  
 F. C. Friesell, *Histology, and Bacteriology and Biology*.  
 J. F. Biddle, *Orthodontia and Radiography*.  
 O. M. Ott, *Physics, and Technical Drawing*.  
 A. F. Judd, *Physics, Chemistry, and Metallurgy*.  
 C. O. Booth, *Prosthetics and Economics*.

**Assistant Professors :**

- W. H. Wright, *Anatomy and Prosthetics*.  
 L. W. Ohl, *Anesthesia and Extracting*.  
 W. A. Dunn, *Chemistry and Metallurgy*.  
 A. Lewis, *Crown and Bridge*.  
 2 Lecturers, 25 Demonstrators.

**THE SCHOOL OF PHARMACY.**

**Professors :**

- J. A. Koch (Dean), *Physics and Chemistry*.  
 L. Saalbach, *Botany*.  
 A. F. Judd, *Botany and Materia Medica*.  
 F. T. Aschman, *Chemistry*.  
 L. K. Darbaker, *Pharmacognosy and Bacteriology*.  
 J. H. Beal (Emeritus), *Pharmacy*.  
 F. A. Rhodes, *Physiology*.

**Associate Professor :**

- F. J. Blumenschein, *Pharmacy*.  
 2 Instructors.

**THE SCHOOL OF ASTRONOMY.**

Allegheny Observatory. (1859.)

*Director*.—F. Schlesinger.

*Assistant Director*.—F. C. Jordan,  
*Assistants*.—F. Henroteau, R. Trumpler.

**DEPARTMENT OF UNIVERSITY EXTENSION.**

**Director :**

J. H. Kelley.

**Heads of Departments :**

- H. E. Cooper, *Extra Mural Instruction Department*.  
 N. McLeod, *Public Service Department*.  
 L. Glaser, *Secretary, Package Library Bureau*.  
 P. Syling, *Secretary, Teachers' Appointment Bureau*.  
 Thyra W. Amos, *Dean of Women*.

**DEPARTMENT OF HEALTH.**

*Director*.—E. M. Frost.

**DEPARTMENT OF PHYSICAL EDUCATION AND ATHLETICS.**

**Professors :**

- [tion.  
 C. S. Miller (Director), *Physical Education*.  
 H. H. Provin, *Physical Education*.

**Associate Professor :**

- M. Shephard, *Physical Education*.  
 2 Instructors.

**DEPARTMENT OF MILITARY SCIENCE AND TACTICS.**

**Professor :**

R. M. Mitchell (Director).

**Assistant Professors :**

- L. W. Lyon.  
 R. A. Parsons.  
 D. B. Falk.

**THE WESTERN THEOLOGICAL SEMINARY**, North Side, Pittsburgh, Pa. (1825.)  
 The Western Theological Seminary is a theological college of the Presbyterian Church in the U.S.A.

*Budget :* Expenditure, \$61,327.15.

*Students :* 48.

*President*.—Rev. J. A. Kelso, Ph.D., D.D.

*Degree conferred*.—B.D.

**FACULTY.****Professors :**

Rev. J. A. Kelso, *Hebrew and Old Testament Literature.*  
 Rev. R. Christie, *Apologetics.*  
 Rev. D. S. Schaff, *Eccelesiastical History and History of Doctrine.*  
 Rev. D. R. Breed, *Sacred Rhetoric and Elocution.*

**Post-Graduate Courses in Theology.**

*Librarian :* Rev. D. E. Culley, Ph.D.

**THE NATIONAL SOCIETY FOR THE STUDY OF EDUCATION**, Pittsburgh, Pa.  
 (1900.)

*Secretary Treasurer.*—Guy M. Whipple, Carnegie Institute of Technology, Pittsburgh Pa.

**Publication.**—Year-book.

**PLYMOUTH.**

**MARINE BIOLOGICAL ASSOCIATION**, Plymouth. (1888.)

*President.*—Sir E. Ray Lankester, K.C.B., F.R.S.

*Director.*—E. J. Allen, D.Sc., F.R.S.

**NATURALISTS.**

L. R. Crawshaw.  
 E. W. Nelson.  
 Miss M. V. Lebour.

J. H. Orton.  
 R. S. Clark.

**POUGHKEEPSIE (New York).**

**VASSAR COLLEGE** (for Women), Poughkeepsie, New York. (1861.)

*Terms :* Two per year.

*Students :* 1,107.

*Budget* (1918-1919): \$548,699. *Total assets*, including buildings, \$6,000,000.

**OFFICIALS.**

*President.*—H. Noble MacCracken, Ph.D., LL.D.

*Dean.*—Miss Ella McCaleb, A.B.

*Head Warden.*—Miss Jean C. Palmer, A.M.

**Degrees conferred.**—A.B., A.M.

**PROFESSORS.****Professors :**

O. S. Tonks, *Art.*  
 C. E. Furness, *Astronomy.*  
 W. B. Hill, *Bible.*  
 C. W. Moulton, *Chemistry.*  
 H. E. Mills, *Economics.*  
 L. J. Wylie, *English.*  
 G. Buck, *English.*  
 (Vacant), *Geology.*  
 M. P. Whitney, *German.*  
 G. H. Macurdy, *Greek.*  
 L. M. Salmon, *History.*  
 J. F. Baldwin, "  
 E. Ellery, "  
 J. L. Moore, *Latin.*  
 H. S. White, *Mathematics.*  
 G. C. Gow, *Musie.*  
 W. Riley, *Philosophy.*  
 D. Drake, "

**Professors—Continued :**

(Vacant), *Physics.*  
 E. H. Thelberg, *Physiology.*  
 E. D. Fite, *Political Science.*  
 M. F. Washburn, *Psychology.*  
 A. L. Treadwell, *Zoology.*

**Associate Professors :**

Prof. Fiske, *English.*  
 " Judson "  
 " Peebles "  
 " Wick, *Physics.*  
 " Strcebe, *German.*  
 " Textor, *History.*  
 " Thallon "  
 " Thompson, *History.*  
 " Fabnestock, *Spanish and Italian.*  
 " Palmer, *Latin.*  
 " Haight "  
 " Saunders "



**Associate Professors—Continued :**

- Prof. Cowley, *Mathematics*.  
 „ Carter, *Physics*.  
 „ Beckwith, *Zoology*.  
 „ Cummings, *Mathematics*.  
 „ Geer, *Music*.  
 „ Dickinson, *Music*.  
 „ Macleod, *Chemistry*.

**Assistant Professors :**

- Prof. Roberts, *Botany*.  
 „ Newcomer, *Economics*.  
 „ Johnson, *English*.  
 „ Yost, *English*.  
 „ Smith „

**Assistant Professors—Continued :**

- Prof. Cochran, *English Speech*.  
 „ White, *French*.  
 „ Conrow „  
 „ Struck, *German*.  
 „ Roselli, *Italian*.  
 „ Landon, *Chemistry*.  
 „ Schumb „  
 „ Kilpatrick „  
 „ Barbour, *History*.  
 „ Wells, *Mathematics*.  
 „ Chittenden, *Music*.  
 57 Lecturers.

**Post-Graduate Courses.**—Arranged by Departments as called for.

**Museums.**—Museums of Art and Natural History.

**Library.**—Thompson Memorial Library. Capacity, 200,000 volumes, 1,300 readers.  
*Head Librarian :* Miss A. L. Reed.

**PRINCE OF WALES COLLEGE.** *See JAMMA.*

**PRETORIA (South Africa).**

**TRANSVAAL UNIVERSITY COLLEGE,** Pretoria. (1908.)

A Constituent College of the University of South Africa.

*Terms :* Two per year.

*Students :* 286.

**OFFICIALS.**

*Rector.*—A. C. Paterson, M.A.  
*Registrar.*—A. A. Roberts, B.A., LL.B.

**Degrees conferred.**—Teachers' First Class Certificate, LL.B., B.D., B.A., M.A., M.Sc., B.Sc., D.Sc., B.Sc. (Agriculture), M.Sc. (Agriculture), D.Sc. (Agriculture), B.Com.

**PROFESSORS.**

**ARTS.**

**Professors :**

- A. C. Paterson, *Latin and Biblical Hebrew*.  
 H. Reinink, *Greek*.  
 J. P. R. Wallis, *English*.  
 T. H. le Roux, *Dutch*.  
 L. Fouche, *History*.  
 W. A. Macfadyen, *Philosophy*.  
 A. E. du Toit, *Mathematics*.

**SCIENCE.**

**Professors :**

- P. G. Gundry, *Physics*.  
 D. F. du T. Malherbe, *Chemistry*.  
 H. A. Wager, *Botany*.  
 A. M. Bosman, *Agriculture*.  
 J. M. Hector, *Agricultural Botany*.  
 E. Anderson, *Agricultural Chemistry*.  
 P. R. Viljoen, *Veterinary Science*.  
 19 Lecturers.

**Library.**—College Library. *Librarian :* (Vacant.)

**PRINCETON (New Jersey).**

**PRINCETON UNIVERSITY,** N.J., U.S.A. (1746.)

*Terms :* Two per year.

*Students :* 1,800.

*Budget :* \$830,000.

**OFFICIALS.**

*President.*—J. G. Hibben.  
*Dean of Science Departments.*—H. B. Fine.  
*Dean.*—W. F. Magie.  
*Dean of the Graduate School.*—Andrew F. West.  
*Dean of the College.*—H. McClenahan.  
*Treasurer.*—Henry G. Duffield.  
*Secretary.*—(Acting) V. Lansing Collins.  
*Secretary of Business Administration.*—G. C. Wintringer.  
*Registrar.*—F. L. Hutson.  
*Clerk of the Board of Trustees.*—W. Farrand.

## Degrees conferred.

## Degrees.

## Hoods.

A.B. -	-	Black Hood, lined with orange with black chevron, white trimmed.
B.S. -	-	Black Hood, lined with orange with black chevron, yellow trimmed.
A.M. -	-	Black Hood, lined with orange with black chevron, white trimmed.
Ph.D. -	-	Black Hood, lined with orange with black chevron, blue trimmed.
M.S. -	-	Black Hood, lined with orange with black chevron, yellow trimmed.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- J. G. Hibben, *Philosophy*.  
 F. L. Patton, *Ethics*.  
 T. W. Hunt, *English*.  
 W. Libbey, *Physical Geography*.  
 A. Marquand, *Art and Archeology*.  
 A. F. West, *Latin*.  
 H. C. O. Huss, *Modern Languages*.  
 J. H. Westcott, *Latin*.  
 G. McLean Harper, *Belles Lettres and English Language and Literature*.  
 P. Van Dyke, *History*.  
 H. Van Dyke, *English Literature*.  
 T. M. Parrott, *English*.  
 E. Yard Robbins, *Greek Language and Literature*.  
 W. U. Vreeland, *Romance Languages*.  
 W. K. Prentice, *Greek*.  
 H. C. Butler, *Art and Archeology*.  
 D. R. Stuart, *Classics*.  
 C. Gauss, *Modern Languages*.  
 E. Capps, *Classics*.  
 F. F. Abbott, *Latin Language and Literature*.  
 H. J. Ford, *Politics*.  
 R. B. C. Johnson, *Philosophy*.  
 R. McNutt McElroy, *American History*.  
 F. J. Mather, *Art and Archeology*.  
 E. S. Corwin, *Jurisprudence*.  
 H. F. Covington, *Public Speaking*.  
 F. A. Fetter, *Political Economy*.  
 D. Magie, *Classics*.  
 J. D. Spaeth, *English*.  
 D. L. Buffum, *Romanic Languages*.  
 V. L. Collins, *French Language and Literature*.  
 J. P. Hoskins, *Germanic Languages and Literature*.  
 M. F. Blau, *Germanic Languages and Literature*.  
 G. M. Priest, *Germanic Languages and Literature*.  
 E. W. Kemmerer, *Economics and Finance*.  
 G. B. McClellan, *Economic History*.  
 A. A. Bowman, *Logic*.  
 C. G. Osgood, *English*.  
 E. G. Spaulding, *Philosophy*.  
 A. Naves, *English*.  
 D. C. Munro, *Medieval History*.  
 P. M. Brown, *International Law*.  
 W. Fite, *Ethics*.

## Professors—Continued :

- G. H. Gerould, *English*.  
 R. K. Root, *English*.  
 C. C. Marden, *Spanish*.  
 E. C. Armstrong, *French Language*.  
 W. S. Myers, *Politics*.  
 H. H. Bender, *Indo-Germanic Philology*.  
 C. R. Morey, *Art and Archeology*.  
 D. A. McCabe, *Economics*.  
 D. C. Stuart, *Dramatic Literature*.  
 F. H. Dixon, *Economics*.  
 R. W. Rogers, *Ancient Literature*.

## Associate Professors :

- H. R. Shipman, *History and Politics*.  
 M. W. Croll, *English*.  
 C. W. Kennedy, *English*.

## Assistant Professors :

- P. J. J. van den Ven, *Byzantine History and Literature*.  
 J. W. Basore, *Classics*.  
 F. L. Hutson, "  
 N. E. Griffin, *English*.  
 F. C. MacDonald, "  
 F. L. Critchlow, *Modern Languages*.  
 W. Koren, "  
 H. W. Thayer, "  
 G. T. Whitney, *Philosophy*.  
 G. W. Elderkin, *Art and Archeology*.  
 D. C. Stuart, *Modern Languages*.  
 R. Heermance, *English*.  
 A. C. Johnson, *Classics*.  
 H. S. Murch, *English*.  
 T. J. Wertenbaker, *History and Politics*.  
 C. R. Hall, *History and Politics*.  
 W. P. Hall, "  
 C. Robinson, "  
 R. M. Scoon, *Classics*.  
 H. B. Van Hoesen, *Curator of Manuscripts*.  
 H. B. Dewing, *Classics*.  
 H. C. Longwell, *Philosophy*.  
 A. E. Morse, *History*.  
 S. E. Howard, *Economics*.  
 L. Cons, *Modern Languages*.  
 E. B. Smith, *Art and Archeology*.  
 S. W. Morgan, *Art and Archeology*.  
 J. H. Williams, *Economics*.  
 S. W. Weber, *Classics*.  
 G. R. Davies, *Economics*.  
 W. P. Cresson, *History and Politics*.  
 P. A. Chapman, *Modern Languages*.  
 S. Shellabarger, *English*.

# FACULTY OF SCIENCE.

## Professors :

G. Macloskie, *Biology*.  
 C. McMillan, *Civil Engineering*.  
 W. B. Scott, *Geology*.  
 F. N. Willson, *Graphics*.  
 H. B. Fine, *Mathematics*.  
 W. F. Magie, *Physics*.  
 L. W. McCay, *Chemistry*.  
 H. D. Thompson, *Mathematics*.  
 H. S. S. Smith, *Civil Engineering*.  
 W. B. Harris, *Geodesy*.  
 E. H. Loomis, *Physics*.  
 W. M. Rankin, *Biology*.  
 C. F. W. McClure, *Zoology*.  
 H. C. Warren, *Psychology*.  
 A. H. Phillips, *Mineralogy*.  
 F. Neher, *Organic Chemistry*.  
 C. H. Smyth, jr., *Geology*.  
 H. McClenahan, *Physics*.  
 A. Trowbridge, *Physics*.  
 E. G. Conklin, *Biology*.  
 M. MacLaren, *Electrical Engineering*.  
 E. P. Adams, *Physics*.  
 L. P. Eisenhart, *Mathematics*.  
 J. E. Raycroft, *Hygiene*.  
 G. A. Hulett, *Physical Chemistry*.  
 W. Foster, *Chemistry*.  
 O. Veblen, *Mathematics*.  
 U. Dahlgren, *Biology*.  
 W. Gillespie, *Mathematics*.  
 H. N. Russell, *Astronomy*.  
 P. L. Boutroux, *Mathematics*.  
 A. W. C. Menzies, *Chemistry*.

**Post-Graduate Courses.**—In Arts and Sciences, leading to the degrees of M.A., M.S., and Ph.D.

**Library.**—The University Library. *Librarian* : E. C. Richardson.

## PRINCETON THEOLOGICAL SEMINARY, Princeton, U.S.A. (1812.)

*Term* : One term of 32 weeks, commencing in September.

*Students* : 158.

*Budget* : \$164,000.

**Degree conferred.**—B.D.

## OFFICIALS.

*President.*—Rev. J. Ross Stevenson, D.D., LL.D.

*Registrar and Secretary of Faculty.*—Rev. Paul Martin.

## PROFESSORS.

### Professors :

J. Ross Stevenson, *History of Religion and Christian Missions*.  
 B. B. Warfield, *Didactic and Polemic Theology*.  
 J. D. Davis, *Oriental and Old Testament Literature*.  
 W. B. Greene, *Apologetics and Christian Ethics*.  
 G. Vos, *Biblical Theology*.  
 R. D. Wilson, *Semitic Philology and Old Testament Criticism*.

**Post-Graduate Courses.**—Extensive advanced courses in Theology for students who have completed the usual three years' course in Theology.

**Library.**—109,937 volumes, 36,732 pamphlets. *Librarian* : Rev. J. H. Dulles.

### Professors—Continued :

F. H. Constant, *Civil Engineering*.  
 G. H. Shull, *Botany and Genetics*.  
 J. E. McMahon, jr., *Military Science and Tactics*.  
 H. L. Cooke, *Physics*.  
 K. T. Compton, "  
 E. N. Harvey, *Physiology*.

### Associate Professor :

C. R. MacInnes, *Mathematics*.

### Assistant Professors :

M. S. Farr, *Geology*.  
 P. E. Robinson, *Physics*.  
 R. S. Dugan, *Astronomy*.  
 G. Van Ingen, *Geology*.  
 J. H. M. Wedderburn, *Mathematics*.  
 E. F. Northrup, *Physics*.  
 D. P. Smith, *Chemistry*.  
 J. S. Van Nest, *Chemistry*.  
 F. W. Luehring, *Physical Education*.  
 H. C. McComas, *Psychology*.  
 G. E. Beggs, *Civil Engineering*.  
 E. N. Harvey, *Psychology*.  
 H. S. Taylor, *Physical Chemistry*.  
 L. R. Carey, *Biology*.  
 W. J. Sinclair, *Geology*.  
 N. B. Tooker, *Hygiene*.  
 N. H. Farman, *Chemistry*.  
 C. L. Fleece  
 J. S. MacTaggart, *Military Science and Tactics*.  
 W. K. McClure, *Military Science and Tactics*.

44 Teachers, 8 Instructors, etc.

### Professors—Continued :

W. P. Armstrong, *Literature and Exegesis*.  
 C. R. Erdman, *Practical Theology*.  
 F. W. Loetscher, *Church History*.  
 J. R. Smith, *Homiletics*.  
 C. W. Hodge, *Dogmatic Theology*.

### Assistant Professor :

J. G. Machen, *New Testament Literature and Exegesis*.  
 2 Instructors, 7 Special Lecturers.

## PROVIDENCE (Rhode Island).

BROWN UNIVERSITY, Providence, Rhode Island. (1784.)

Terms : Three a year.

Students : 800.

## OFFICIALS.

President.—W. H. Perry Faunce, D.D., LL.D.

Chancellor.—A. Buffum Chace, Sc.D.

Dean.—O. Everett Randall, Ph.D.

Registrar and Secretary.—F. Taft Guild, A.M.

Treasurer.—C. Sowle Sweetland, A.M.

Degrees conferred.—A.B., A.M., Sc.B., Sc.M., Ph.B., Ph.D., D.P.H.

## PROFESSORS.

## THE FACULTY.

## Professors :

- A. G. Harkness, *Roman Literature and History*.  
 H. B. Gardner, *Economics*.  
 O. E. Randall, *Applied Mathematics*.  
 C. Langdon, *Romance Languages and Literature*.  
 E. B. Delabarre, *Psychology*.  
 W. C. Bronson, *English*.  
 W. G. Everett, *Philosophy and Natural Theology*.  
 C. Barus, *Physics*.  
 F. G. Allinson, *Greek Literature and History*.  
 H. L. Koopman, *Bibliography*.  
 J. E. Hill, *Civil Engineering*.  
 J. Q. Dealey, *Social and Political Science*.  
 W. B. Jacobs, *Education*.  
 A. D. Mead, *Biology*.  
 A. K. Potter, *English*.  
 H. T. Fowler, *Biblical Literature and History*.  
 L. T. Damon, *English*.  
 W. H. Kenerson, *Mechanical Engineering*.  
 L. S. King (Miss), *Classical Literature and Archeology*.  
 F. W. Marvel, *Physical Training*.  
 R. G. D. Richardson, *Pure Mathematics*.  
 T. F. Collier, *European History*.  
 S. S. Colvin, *Educational Psychology*.  
 St. G. L. Sioussat, *American History*.  
 C. W. Abbott, *Military Science and Tactics*.  
 E. C. Griffith, *History*.  
 F. P. Gorham, *Bacteriology*.  
 F. Sloeum, *Nautical Science*.

## Associate Professors :

- A. C. Crowell (Miss), *Germanic Languages and Literatures*.  
 H. P. Manning, *Pure Mathematics*.  
 A. De F. Palmer, *Physics*.  
 A. B. Johnson, *Romantic Languages*.  
 J. F. Greene, *Roman Literature and History*.  
 G. W. Benedict, *English*.  
 T. Crosby, jr., *English and Public Speaking*.  
 H. B. Huntingson, *English*.  
 A. Brooks, *Mechanics and Mechanical Drawing*.  
 C. W. Brown, *Geology*.  
 H. E. Walter, *Biology*.  
 R. C. Archibald (Miss), *Pure Mathematics*.

## Assistant Professors :

- A. E. Watson, *Electrical Engineering*.  
 C. H. Hunkins, *Romance Languages and Literatures*.  
 P. H. Mitchell, *Physiology*.  
 H. Cross, *Civil Engineering*.  
 H. H. York, *Botany*.  
 W. T. Hastings, *English*.  
 J. C. Dunning, *Political Science*.  
 A. H. Jones, *Logic*.  
 R. McB. Mitchell, *Germanic Languages and Literatures*.  
 J. A. Hall, *Mechanical Engineering*.  
 K. K. Smith, *Greek Literature and History*.  
 C. H. Currier, *Mathematics*.  
 R. F. Chambers, *Chemistry*.  
 St. T. Arnold  
 T. H. Brown, *Nautical Science*.  
 H. S. Bucklin, *Social Science*.  
 H. F. Davidson, *Chemistry*.  
 S. Wilmot, *Applied Mechanics*.

25 Instructors, 5 Lecturers and Demonstrators, 6 Assistants.

Post-Graduate Courses.—Leading to A.M., Sc.M., Ph.D., and D.P.H.

## Libraries.—

University Library of 250,000 volumes. Librarian : H. L. Koopman, A.M., Litt.D.

John Carter Library of Americana.

Museum of Fine Arts. Director : F. G. Allinson, Ph.D.

Ladd Observatory. Director : R. G. D. Richardson, Ph.D.



# PULLMAN (Washington).

THE STATE COLLEGE OF WASHINGTON, Pullman, Whitman County, Wash.  
(1891.)

Three Semesters a year.

Students : 1,958.

University Budget : \$875,000 per year.

## OFFICIALS.

President.—E. O. Holland, Ph.D.

Vice-President.—O. L. Waller, Ph.M.

General Secretary.—C. A. Isaacs, A.M.

Accountant.—W. C. Kruegel, B.A.

Registrar.—F. T. Barnard, B.S.

Dean of College of Agriculture and Director of the Experiment Station.—E. C. Johnson, M.A.

Dean of College of Home Economics.—Florence Harrison, M.A.

Dean of College of Mechanic Arts and Engineering.—H. V. Carpenter, M.S.

Dean of College of Sciences and Arts.—W. G. Beach, M.A.

Dean of College of Veterinary Science.—S. B. Nelson, D.V.M.

Dean of School of Education.—A. A. Cleveland, Ph.D.

Dean of School of Mines.—L. O. Howard, M.E.

Dean of School of Music and Applied Design.—H. Kimbrough.

Head of School of Pharmacy.—P. H. Dirstine, B.S.

Head of Department of Elementary Science.—F. O. Kreager, B.A.

Director of Agricultural Extension.—S. B. Nelson, D.V.M.

Director of General College Extension.—F. F. Nalder, Ph.D.

Dean of Women.—Rhoda M. White, B.A.

Degrees conferred.—B.A., B.S., M.A., M.S., C.E., E.M., E.E., Ph.G., Ph.C., D.V.M.

## PROFESSORS.

### Professors :

J. P. Fairbank, *Agricultural Engineering.*

H. Hackedorn, *Animal Husbandry.*

E. G. Woodward, *Dairy Husbandry.*

E. G. Schafer, *Farm Crops.*

G. Severance, *Farm Management.*

E. H. Steffen, *Forestry.*

O. M. Morris, *Horticulture.*

R. J. Barnett, *Pomology.*

F. D. Heald, *Plant Pathology.*

R. V. Mitchell, *Poultry Husbandry.*

F. J. Sievers, *Soils.*

R. Weaver, *Architecture.*

O. L. Waller, *Civil Engineering.*

M. K. Snyder, *Sanitary Engineering.*

H. E. Phelps, *Highway Engineering.*

H. V. Carpenter, *Mechanical and Electrical Engineering.*

C. A. Isaacs, *Mathematics.*

J. W. Ramsey, *Applied Electricity.*

A. Cammack, *Steam Engineering.*

B. L. Steele, *Physics.*

F. L. Pickett, *Botany.*

C. C. Todd, *Chemistry.*

C. M. Brewster, *General and Physical Chemistry.*

W. G. Beach, *Sociology and Head of Department of Economic Science and History.*

F. A. Golder, *History.*

### Professors—Continued :

L. F. Jackson, *American History.*

F. F. Nalder, *Sociology.*

B. McCully, *English.*

C. A. Cornelson, *English.*

F. C. Chalfont, *Modern Languages.*

F. F. Potter, *Latin.*

S. Shedd, *Geology.*

A. L. Melander, *Zoology.*

W. T. Shaw, *Zoology.*

A. A. Cleveland, *Education.*

D. W. Hamilton, *Agricultural Education.*

F. Harrison (Miss), *Home Economics.*

Lt.-Col. A. W. Cleary, *Military Science and Tactics.*

L. O. Howard, *Mines.*

H. Kimbrough, *Piano.*

I. Wright-Herbst (Miss), *Vocal Music.*

G. Herbst, *Violin.*

W. T. McDermitt, *Drawing and Design.*

P. H. Dirstine, *Pharmacy.*

J. F. Bohler, *Physical Education.*

S. B. Nelson, *Veterinary Science.*

E. E. Wegner, *Anatomy and Surgery.*

J. W. Kalkus, *Histology and Pathology.*

O. Menig, *Veterinary Medicine.*

F. O. Kreager, *Elementary Science.*

### Associate Professors :

E. C. Colpitts, *Mathematics.*

A. C. Abell, *Mechanical Engineering.*

**Associate Professors—Continued :**

- G. H. Jensen, *Plant Physiology and Pharmacognosy*.  
 T. J. Murray, *Bacteriology*.  
 R. P. Cope, *Agricultural and Analytical Chemistry*.  
 F. Thayer, *Journalism*.  
 E. I. Avery (Miss), *Textiles and Clothing*.  
 C. G. Warfel, *Mining*.

**Assistant Professors :**

- C. E. Howell, *Animal Husbandry*.  
 E. F. Gaines, *Farm Crops*.  
 D. P. Hull, *Landscape Gardening and Floriculture*.  
 A. F. Heck, *Soils*.  
 G. E. Thornton, *Mechanical Engineering*.  
 S. C. Roberts, *Manual Training*.  
 F. G. Tucker, *Physics*.  
 H. C. Aase (Miss), *Botany*.  
 A. G. Paterson (Miss), *Analytical Chemistry*.

**Libraries.—**

- The College Library.  
 The Experiment Station Library.  
*Librarian* : W. W. Foot.

**Post-Graduate Courses** offered in practically all Departments.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director*.—E. C. Johnson.

**PUNJAB UNIVERSITY. See LAHORE.****QUÉBEC (Canada).**

**UNIVERSITÉ LAVAL**, Québec, Canada. (1852.)

*Terms* : Three a year.

*Students* : 1,283.

**OFFICIALS.**

*Chancellor*.—L'Eminentissime Louis N. Bégin.

*Vice-Chancellor*.—Sa Grandeur Mgr. P. L. N. Bruchési.

*Rector*.—Mgr. F. Pelletier.

*Secretary*.—M. Ph. J. Fillion.

**Degrees conferred**.—Ph.D., B.A., B.L., B.S., M.B., M.D., LL.B., LL.L., B.Th., L.Th., D.Th., B.C.L., L.C.L., D.C.L.

**PROFESSORS.****FACULTY OF THEOLOGY.****Professors :**

- L. A. Pâquet, *Dogmatic Theology*.  
 E. Nadeau, *Moral Theology*.  
 J. Gignac, *Canonical Law*.  
 Chs. N. Gariépy, *Moral Theology*.  
 J. E. Grandbois, *Oriental Languages*.  
 P. B. Garneau, *Ecclesiastical History*.  
 A. Robert, *Dogmatic Theology*.  
 C. Gagnon, *Moral Theology*.  
 F. L. Lelandais, *Pastoral Theology*.  
 N. V. Many, *Hebrew*.  
 J. E. Dorvaux, *Hebrew*.  
 F. Duchéin, *Canonical Law*.  
 R. Neveu, *Ecclesiastical History*.

**Associate Professors :**

- B. M. Gattet, *Holy Writing*.  
 L. J. François, *Holy Writing*.  
 L. Perrin, *Dogmatic Theology*.  
 H. J. Jeannotte, *Dogmatic Theology*.  
 A. Pasquier, *Moral Theology*.  
 E. V. Jacob, *Holy Writing*.  
 R. Allard, *Dogmatic Theology*.  
 2 Fellows.

**FACULTY OF LAW.****Professors :**

- L'honorable E. J. Flynn, *Roman Law*.  
 Sir A. B. Routheir, *Instructional Law*.  
 A. Pouliot, *Civil Proceedings*.

**Professors—Continued :**

- L. P. Sirois, *Constitutional Law*.  
 Ls. M. J. A. Bernier, *Commercial Law*.  
 E. Belleau, *Roman Law*.  
 L'honorable C. E. Dorion, *Civil Law*.  
 J. E. Prince, *Social and Political Economy*.  
 Sir C. Fitzpatrick, *Criminal Law*.  
 L'honorable L. P. Pelletier, *Customs Legislation*.  
 F. Roy, *Criminal Law*.  
 J. Sirois, *Constitutional Law*.  
 L. St. Laurent, *History of Law*.  
 Sir L. Jetté, *Civil Law*.  
 Sir A. Lacoste, *Commercial Law*. [Law.  
 L'honorable C. C. de Lorimer, *Criminal*  
 L'honorable E. Lafontaine, *Civil Law*.  
 L'honorable L. P. Demers, *Civil Law*.  
 L'honorable R. Lemieux, *History of International Law*.  
 L'honorable N. Pérodeau, *Law*.  
 P. Cousineau, *Constitutional Law*.  
 Ls. J. S. Morin, *Criminal Law*.  
 R. Taschereau, *Civil Procedure*.  
 V. Morin, *Administrative Law*.  
 E. Montpetit, *Political Economy*.  
 A. Perrault, *Commercial Law*.  
 4 Fellows.

**FACULTY OF MEDICINE.**

**Professors :**

- E. Turcot, *Materia Medica*.  
 M. D. Brochu, *Nervous Diseases*.  
 A. C. Hamel, *Histology*.  
 A. Marois, *Toxicology*.  
 S. Grondin, *Gynecology*.  
 A. Simard, *Pathology*. [Diseases.  
 P. Coote, *Pathology, and Ear and Eye*  
 R. Fortier, *Children's Diseases*.  
 A. Rousseau, *Pathology and Eye and Ear Diseases*.  
 N. A. Dussault, *Pathology and Eye and Ear Diseases*.  
 R. Paquin, *Hygiene*.  
 J. D. Pagé, *Ophthalmology*.  
 P. V. Faucher, *Materia Medica*.  
 J. Guérard, *Therapeutics*.  
 L. J. N. Fiset, *Laryngology*.  
 R. Mayrand, *Dermatology*.

**Library** of 107,514 bound volumes and 35,397 pamphlets. **Librarians :** Ph.B. Garneau and L. E. Nadeau.

**Museums** of Mineralogy, Geology, Botany, Zoology, Ethnology, Art, Numismatics, and Religion.

**AFFILIATED INSTITUTIONS.**

Ecole Polytechnique de Montréal.  
 Ecole d'Arpentage et de génie forestier, Québec.  
 Institut Agricole d'Oka.  
 Ecole d'Agriculture, de Ste. Anne.

**Professors—Continued :**

- C. Dagneau, *Anatomy*.  
 A. Piquet  
 A. Vallée, *Bacteriology*.  
 O. Leclerc, *Physiology*.  
 5 Fellows.

**FACULTY OF ARTS.**

**Professors :**

- A. Gosselin, *History of Canada*.  
 F. Pelletier, *Greek Literature*.  
 H. Simard, *Physics*.  
 C. Roy, *French Literature*.  
 Ph. J. Fillion, *Chemistry*.  
 A. Rivard, *Elocution*.  
 Sir G. Garneau, *Analytical Chemistry*.  
 L'honorable T. Chapais, *History*.  
 P. Hébert, *Latin Literature*.  
 J. N. Gastonguay, *Topography*.  
 G. C. Piché, *Forestry*.  
 A. Bédard  
 A. Smith, *Astronomy*.  
 J. Bouffard, *Forestry Law*.  
 A. Tremblay, *Mathematics*.  
 A. Mercil  
 A. Garneau, *Geography*.  
 P. Joncas, *Building Construction*.  
 A. Vachon, *Geology and Mineralogy*.  
 A. Aubert, *French*.  
 O. Bergeron, *Mathematics*.  
 J. F. Laliberté, *Greek Literature*.  
 P. Choquette, *Physics*.  
 G. Dauth, *History and Philosophy*.  
 E. Hébert, *History of Canada*.  
 E. L. Perrin, *Philosophy*.  
 E. Marceau, *Industrial Economy*.  
 A. Curotte  
 P. Perrier  
 A. Nantel, *Christian Apologetics*.  
 L. A. Jasmin, *Eloquence*.  
 J. B. Lagace, *History of Art*.  
 J. L. Desjardins, *Ecclesiastical History*.  
 E. Chartier, *Canadian Literature*.  
 Sir L. Jetté, *Political Economy*.  
 E. Auclair, *Philosophy*.  
 R. Gautheron, *French Literature*.  
 L. Groux, *History of Canada*.  
 G. Vanier, *Commercial Law*.  
 2 Fellows.

**QUEEN'S COLLEGE.** See MELBOURNE.

**QUEEN'S THEOLOGICAL COLLEGE.** See KINGSTON.

**QUEEN'S UNIVERSITY.** See BELFAST.

**RALEIGH (North Carolina).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—B. W. Kilgore.**RAMJA'S COLLEGE.** *See* DELHI.**RANDHIR COLLEGE.** *See* KAPURTHALA.**RANGOON (Burma).****RANGOON COLLEGE, RANGOON. (1885.)**

The College is affiliated to the B.A. and B.Sc., standard of the Calcutta University in English, Pali, Mathematics, and Chemistry to the Honours standard; and in Persian, Philosophy, and Physics to the Pass standard.

*Terms* : Two a year.*Students* : 680.*Budget* : Rs. 176,091: 12: 3.**OFFICIAL.***Principal.*—M. Hunter, M.A., C.I.E.**PROFESSORS.**G. H. Luce, *English.*

A. Campbell     "

C. W. Ainley    "

W. Douglas      "

M. Tin, *Pali.*L. G. Owen, *Mathematics.*K. P. De, *Mathematics.*L. P. Saunders, *Philosophy.*

G. R. T. Ross     "

A. E. Bellars, *Chemistry.*R. Venkateswaran, *Chemistry.*K. M. Ward, *Physics.*

10 Lecturers.

**RAPID CITY (South Dakota).****SOUTH DAKOTA STATE SCHOOL OF MINES, Rapid City, South Dakota, U.S.A. (1885.)***Terms* : Two semesters.*Students* : 125.

*Budget* : Legislative appropriations with fees, etc., will amount for the years 1919-20 and 1920-21 to approximately \$250,000, including \$100,000 for a new engineering building.

**OFFICIALS.***President.*—C. C. O'Harra.

**Degrees conferred.**—B.S. in Mining Engineering, B.S. in Metallurgical Engineering, E.M. (Engineer of Mines), M.E. (Metallurgical Engineer).

**PROFESSORS.****Professors :**C. C. O'Harra, *Geology.*H. L. McLaury, *Mathematics.*J. McLeerie, *English.*J. P. Connolly, *Mineralogy and Petrography.*C. S. Bisson, *Chemistry.*C. L. Swisher, *Physics.***Professors—Continued :**W. C. Bochert, *Mining.*F. W. Traphagem, *Metallurgy.*A. S. Hathway, *Civil Engineering.***Assistant Professors :**B. E. Leete, *Biology.*C. Bentley, *Analyst in charge of State Mining Experiment Station.***Museums.**—Geological Museum and Metallurgical Museum.**Library.**—Technical Library of 8,000 volumes. *Librarian* : D. M. Haft.**RAWALPINDI (Punjab).****GORDON COLLEGE, Rawalpindi, Punjab.**

Affiliated to the University of the Punjab, Lahore.

*Students* : 175.



OFFICIALS.

*Principal*.—Rev. E. Porter, M.A., D.D.

PROFESSORS.

E. L. Porter, *English*.  
W. H. Merriam, "  
R. R. Stewart, *Biology*.  
J. E. Strong, *Physics and Chemistry*.  
P. Ponsonby, *History and Economics*.  
M. A. Rahman, *Persian and English*.

L. S. Nand, *Mathematics*.  
I. Latif, *Philosophy*.  
R. Singh, *English and History*.  
M. M. Akram, *Persian and Arabic*.  
Pt. U. Chend, *Sanskrit*.

READING.

UNIVERSITY COLLEGE, Reading. (1892.)

*Terms* : Three a year.

*Students* : 1,200 day and evening.

OFFICIALS.

*Visitor*.—The Very Rev. The Dean of Christ Church, Oxford.  
*President*.—J. Herbert Benyon, M.A., J.P. (Lord-Lieut. of Berkshire).  
*Chairman of Council*.—Alfred Palmer, J.P.  
*Principal*.—W. M. Childs, M.A.  
*Registrar*.—Francis H. Wright, M.A.

**Degrees**.—As the College is not an independent University it has no power to confer degrees; but it offers Diplomas in Letters, Agriculture, Horticulture, Dairying, Fine Arts, Commerce, Music, and Domestic subjects.

PROFESSORS.

FACULTY OF LETTERS.

**Professors :**

W. G. D. Burgh, *Philosophy*.  
P. N. Ure, *Classics*.  
R. Dewar, *English Literature*.  
E. J. Morley (Miss), *English Language*.  
F. M. Stenton, *Modern History*.  
W. M. Childs (Hon.), *Modern History*.  
2 Research Fellows, 20 Lecturers, 2  
Assistant Lecturers, 2 Teachers.

FACULTY OF SCIENCE.

W. G. Duffield, *Physics*.

**Professors—Continued :**

H. Bassett, *Chemistry*.  
F. J. Cole, *Zoology*.  
H. N. Dickson, *Geography*.  
9 Lecturers, 1 Assistant.

FACULTY OF AGRICULTURE AND HORTICULTURE.

S. J. M. Auld, *Agricultural Chemistry*.  
J. Percival, *Agricultural Botany*.  
8 Lecturers, 1 Analyst, 1 Research  
Chemist, 1 Research Bacteriologist,  
5 Assistants, 1 Instructor.

INCORPORATED INSTITUTIONS.

The British Dairy Institute.  
The Research Institute in Dairying.

RENSSLAER POLYTECHNIC INSTITUTE. See TROY.

RENO (Nevada).

UNIVERSITY OF NEVADA, Nevada, U.S.A. (1873.)

The University of Nevada is the only institution of higher education in the State of Nevada, and it combines the advantages usually offered in other States in the Normal School, Agricultural College, and the University.

*Terms* : Two semesters of five months each, and a summer session of six weeks.  
*Students* : In normal times 350. Last year, because of war conditions, 285.

OFFICIALS.

*President*.—W. E. Clark.  
*Vice-President*.—R. Lewers.  
*Registrar*.—Miss L. M. Sissa.  
*Comptroller*.—C. H. Gorman.  
*Superintendent of the Buildings*.—J. B. Lynch.

**Degrees conferred.**—B.A. or B.S., B.S. in Engineering, B.S. in Agriculture and in Home Economics, M.A., and M.S.

## PROFESSORS.

### FACULTY OF ARTS AND SCIENCES.

#### Professors :

J. E. Church, *Classics*.  
J. E. Wier, *History*.  
P. Frandsen, *Biology*.  
R. Adams, *Economics and Sociology*.  
M. Adams, *Chemistry*.  
H. W. Hill, *English*.  
L. W. Hartman, *Physics*.  
R. C. Thompson, *Philosophy*.  
W. S. Palmer, *Metallurgy*.  
C. S. Spencer, *Political Science*.  
A. E. Hill, *English*.  
J. P. Ryan, *Military Science and Tactics*.

#### Associate Professors :

K. Lewers (Miss), *Freehand Drawing*.  
C. Goggio, *Romanic Languages and Literature*.  
W. E. Lowther, *Romanic Languages and Literature*.  
K. Riegelhuth (Miss), *German*.  
A. E. Turner, *Oral English*.  
G. W. Sears, *Chemistry*.

#### Assistant Professors :

S. C. Feemster, *History*.  
M. E. Mack (Miss), *Biology*.

### FACULTY OF ENGINEERING.

#### Professors :

H. P. Boardman, *Civil Engineering*.  
C. Hasaman, *Mathematics and Mechanics*.  
F. C. Lincoln, *Mining*.  
J. C. Jones, *Geology and Mineralogy*.  
S. G. Palmer, *Electrical Engineering*.

**Post-Graduate Courses.**—Post-Graduate Courses are offered in all Departments of the University.

#### Museums.—

Mackay Mining Museum.  
Agricultural Museum.  
Biological Museum.  
Pathological Museum.

**Library.**—The University Library consists of 32,000 bound volumes and several thousand pamphlets. Also various departmental libraries. Mining Library, Agricultural Library.

Phi Kappa Phi is the student Honor Society.

## AFFILIATED INSTITUTIONS.

A Public Service Division constituted of the following six departments:

1. Agricultural Experiment Station.
2. Agricultural Extension Division.
3. Food and Drugs Control, and Weights and Measures.
4. State Hygienic Laboratory.
5. State Veterinary Control Service.
6. State Mining Laboratory.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—S. B. Doten.**RHODES UNIVERSITY COLLEGE.** *See* GRAHAMSTOWN.**RIO PIEDRAS (Porto Rico).****INSULAR STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—E. D. Colon.**ROBERTSON COLLEGE.** *See* EDMONTON.**ROCHESTER (New York).****ROCHESTER THEOLOGICAL SEMINARY, Rochester, New York, U.S.A. (1850.)**

Admits College Graduates only; not co-educational.

*Terms* : Three per year.*Students* (1919-1920): 61.*Budget* : \$78,635.03.**OFFICIALS.***President.*—The Rev. C. A. Barbour, D.D.*Dean.*—The Rev. J. W. A. Stewart, D.D., LL.D.*Registrar.*—The Rev. G. B. Ewell, A.B., B.D.**Degrees conferred.**—B.D., Th.M. The Hoods are royal purple and gold.**PROFESSORS.**

A. H. Strong (President Emeritus).

C. A. Barbour, *Homiletics*.J. P. Silvernail, *Elocution and Sacred Oratory*.J. W. A. Stewart, *Christian Ethics and Pastoral Theology*.C. H. Moehlmann, *Church History*.G. Cross, *Systematic Theology*.H. B. Robins, *Religious Education, the History and Philosophy of Religion and Missions*.E. W. Parsons, *New Testament Interpretation*.J. W. Nixon, *English Bible and Christian Sociology*.J. R. Brown, *Hebrew Language and Literature*.**Library.**—46,776 volumes. *Librarian* : The Rev. G. B. Ewell, A.B., B.D.**ROSE POLYTECHNIC INSTITUTE.** *See* TERRE HAUTE.**ROTHAMSTED.****ROTHAMSTED EXPERIMENTAL STATION, Rothamsted.**

John Bennet Lawes was the founder of the Rothamsted Experimental Station. He began systematic field experiments in 1843 in conjunction with Joseph Henry Gilbert; this partnership lasted until the death of Lawes in 1900.

Under the scheme initiated by the Board of Agriculture for establishing a number of Institutes for fundamental research in agriculture, the Rothamsted Experimental Station has been recognized as the Institute for dealing with Soil and Plant Nutrition Problems, and since 1911 it has received an annual grant out of the Development Fund which has been gradually increased from £2,500 to £4,750.

In 1918, at the instigation of the Board of Agriculture, an Institute for investigations in Plant Pathology was established at Rothamsted comprising three sections dealing respectively with Entomology, Mycology, and Helminthology.

**OFFICIALS.***Director.*—E. J. Russell, D.Sc., F.R.S.*Secretary.*—Miss Ruth Gimingham.**PROFESSORS.**E. H. Richards, *Chemist*.

F. Tattersfield, „

E. Horton, „

D. J. Matthews, *Chemist*.

G. C. Sawyer, „

E. M. Crowther, „

**Professors—Continued :**

W. A. Roach, *Chemist*.  
 B. A. Keen, *Soil Physicist*.  
 H. G. Thornton, *Bacteriologist*.  
 W. E. Brenchley (Miss), *Botanist*.  
 L. M. Crump (Miss), *Protozoologist*.  
 D. W. Cutler, *Protozoologist*.

**Professors—Continued :**

D. J. Matthews (Mrs.), *Research Biologist*.  
 A. D. Imms, *Entomologist*.  
 W. B. Brierley, *Mycologist*.  
 S. T. Jewson (Miss), *Assistant Mycologist*.

**SACKVILLE (New Brunswick).**

**MOUNT ALLISON UNIVERSITY**, Sackville, New Brunswick. (1862.)

*Terms* : Two terms a year.

*Students* : 240.

**Budget :**

Revenue from all sources	..	..	..	\$61,315.47.
Expenditure	..	..	..	\$56,821.17.

**OFFICIALS.**

*President*.—Rev. B. C. Borden, D.D., D.C.L.

*Registrar*.—W. M. Tweedie, M.A.

**Degrees conferred :****Degrees.****Hoods.**

B.A.	-	Black stuff edged on inside with garnet silk.
B.Sc.	-	Black stuff edged on inside with gold-coloured silk.
B.Mus.	-	Black stuff edged on inside with royal blue silk.
B.D.	-	Black stuff edged on inside with garnet silk and ermine.
M.A.	-	Black stuff or silk with lining of garnet silk.
D.D.	-	Scarlet cloth lined with purple silk.
LL.D.	-	Scarlet cloth lined with blue silk.
D.C.L.	-	Scarlet cloth lined with old gold silk.

**PROFESSORS.****FACULTY OF ARTS AND SCIENCE.****Professors :**

Rev. B. C. Borden, *Political Science*.  
 S. W. Hunton, *Mathematics*.  
 W. M. Tweedie, *English Language and Literature*.  
 J. M. Palmer, *French Language and Literature*.  
 H. E. Bigelow, *Chemistry*.  
 Rev. R. B. Liddy, *Philosophy*.  
 C. C. Delano, *Classics*.  
 P. B. Perkins, *Physics*.  
 A. B. Dawson, *Biology*.

**Post-Graduate Courses.**—Specially organized Graduate Department.

*Librarian* : F. W. W. Des Barres.

**FACULTY OF ENGINEERING****Professors :**

J. W. Crowell, *Engineering*.  
 H. W. McKiel, *Mechanical Engineering*.

**FACULTY OF THEOLOGY.****Professors :**

Rev. W. G. Watson, *Hebrew, Old Testament Exegesis and English Bible*.  
 Rev. F. W. W. Des Barres, *Church History*.  
 Rev. J. Line, *Systematic Theology and History of Doctrine*.  
 3 Lecturers, 3 Instructors.

**ST. ALBANS (Herts).**

**HERTFORDSHIRE NATURAL HISTORY SOCIETY**, County Museum, St. Albans, Herts.

**OFFICIALS.**

*President*.—A. E. Boycott, M.A., M.D., B.Sc., B.Ch., F.R.S.

*Treasurer*.—J. Weall.

*Hon. Secretaries*.—C. Oldham, E. J. Salisbury, D.Sc.

**ST. ANDREWS.**

**UNIVERSITY OF ST. ANDREWS**, St. Andrews. (1411.)

*Terms* : Three a year.

*Students* (1918-1919) : 513.



## OFFICIALS.

*Chancellor.*—The Right Hon. Lord Balfour of Burleigh, K.T., LL.D.

*Vice-Chancellor.*—Sir John Herkless, D.D., LL.D.

*Rector.*—Sir James Matthew Barrie, Bart., LL.D.

*Principal.*—Sir J. Herkless, D.D., LL.D.

*Principal St. Mary's College.*—The Very Rev. G. Galloway, M.A., B.D., D.Phil., D.D.

*Principal University College, Dundee.*—J. Y. Mackay, M.D., LL.D.

## Degrees conferred :

## Degrees.

M.A.	- -	Black silk, with red silk lining.
B.D.	- -	Violet-purple silk or cloth, bordered with white fur.
D.D.	- -	Violet-purple silk or cloth, with white satin lining.
LL.D.	- -	Scarlet silk or cloth, with white satin lining.
M.B., Ch.B.	- -	Crimson silk or cloth, bordered with white fur.
M.D.	- -	Crimson silk or cloth, with white satin lining.
D.Litt.	- -	Orange silk, with white lining.
B.Litt.	- -	Orange silk, bordered with white fur.
D.Phil.	- -	Yellow silk, with white lining.
B.Phil.	- -	Yellow silk, bordered with white fur.
Mus.D.	- -	Coculean blue silk or cloth, with white satin lining.
Ch.M., Ed.B.	- -	Hoods not yet prescribed.

## Hoods.

## PROFESSORS, ETC.

## Professors :

J. Burnet, *Greek*.  
 A. Lawson, *English Literature*.  
 J. Edgar, *Education*.  
 G. F. Stout, *Logic and Metaphysics*.  
 A. E. Taylor, *Moral Philosophy*.  
 P. R. S. Lang, *Mathematics*.  
 A. S. Butler, *Natural Philosophy*.  
 J. E. Steggall, *Mathematics*.  
 D. W. Thompson, *Natural History*.  
 P. Geddes, *Botany*.  
 W. Peddie, *Physics*.  
 J. C. Irvine, *Chemistry*.  
 A. H. Gibson, *Engineering and Drawing*.  
 A. M'Kenzie, *Chemistry*.  
 D. Waterston, *Anatomy*.  
 J. F. Gemmill, *Natural History*.  
 J. J. Mackay, *Anatomy*.  
 E. W. Reid, *Physiology*.  
 A. M. Stalker, *Medicine*.  
 J. A. C. Kynoch, *Midwifery*.  
 L. R. Sutherland, *Pathology*.  
 P. T. Herring, *Physiology*.  
 L. T. Price, *Surgery*.  
 F. J. Charteris, *Materia Medica*.  
 G. Galloway, *Divinity*.  
 W. M. Lindsay, *Humanity*.  
 D. M. Kay, *Hebrew and Oriental Language*.  
 A. Main, *Ecclesiastical History*.  
 G. Duncan, *Divinity and Biblical Criticism*.  
 31 Assistant Lecturers.

## Readers :

R. A. Robertson, *Botany*.  
 W. N. Haworth, *Chemistry*.

## Lecturers :

J. Allison, *Scots Law*. [*Literature*.]  
 T. R. Mills, *Latin Language and*

## Lecturers—Continued :

T. P. Young, *French Language and Literature*.  
 G. Soutar, *English Language and Literature*.  
 H. J. Thomson, *Latin*. [*Literature*.]  
 J. A. Roy, *English Language and*  
 J. D. Mackie, *Modern History*.  
 F. J. Tanqueray, *French Language and Literature*.  
 D. Morrison, *Logic and Psychology*.  
 W. L. Lorimer, *Greek*.  
 J. W. Williams, *Political Economy*.  
 C. D. Broad, *Logic and Psychology*.  
 K. Hayens, *German*.  
 Smith, M. (Miss) "  
 J. H. Wilson, *Agriculture and Rural Economy*.  
 W. G. Robson, *Natural Philosophy*.  
 G. Robertson, *Chemistry*.  
 J. K. Wood, *Chemistry*.  
 A. Fulton, *Engineering*.  
 G. West, *Botany*.  
 A. MacGillivray, *Ophthalmology*.  
 J. M. Whyte, *Clinical Medicine*.  
 D. M. Greig, *Clinical Surgery and Diseases of Children*.  
 R. C. Buist, *Midwifery and Gynecology*.  
 W. T. Mackenzie, *Mental Diseases*.  
 J. S. Y. Rogers, *Diseases of Children*.  
 W. E. Foggie, *Diseases of the Skin*.  
 F. M. Milne, *Clinical Pathology*.  
 W. L. Robertson, *Clinical Surgery*.  
 R. P. Mathers, *Diseases of the Throat, Nose, and Ear*.  
 D. R. Dow, *Regional Anatomy*.  
 W. L. Burgess, *Fevers, and on Public Health*. [*ology*.]  
 W. E. Collinge, *Comparative Embry-*  
 W. J. Tulloch, *Bacteriology*.

**Post-Graduate Courses.**—Post-Graduate work can be carried on in the Science and Medical Departments at St. Andrews and Dundee, including Chemistry, Botany, Zoology, Natural Philosophy, Anatomy, Physiology, Engineering, Electrical Engineering, Agriculture, and in the several Arts Departments.

**Libraries.**—

University Library, St. Andrews.

University College, Dundee.

*Librarians* : J. M. Anderson, LL.D., and H. Willsher.

**Museums.**—

Bell Pettigrew Museum. *Director* : Prof. D'A. W. Thompson.

Chemical Research Laboratory. *Director* : Prof. J. C. Irvine.

**INCORPORATED INSTITUTIONS.**

United College of St. Salvator and St. Leonard (1450).

St. Mary's College (1537).

University College, Dundee (1883).

These are incorporated in and form part of the University of St. Andrews.

**ST. CROIX (Virgin Islands).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Agronomist.*—Longfield Smith.

**ST. DAVID'S COLLEGE. See LAMPETER.**

**ST. 'HELIER (Jersey).**

**THE ST. LOUIS OBSERVATORY, St. Hélier, Jersey.**

Founded in 1893 for Meteorological, Magnetical, and Electrical Studies. Each year the observations are published in a Bulletin. Since 1914 the Bulletins form part of the Geophysical Journal edited by the Meteorological Office of London.

*Director.*—The Rev. M. Dechevrens, S.J.

**SAINT JOHN (New Brunswick).**

**NATURAL HISTORY SOCIETY OF NEW BRUNSWICK, Saint John, New Brunswick. (1862.)**

The Natural History Society of New Brunswick was organized in 1862, and has for many years maintained a natural history and historical Museum. Its Library contains upwards of fifteen thousand books and pamphlets. It publishes a bulletin, six volumes of which have been issued, and is the largest Museum in the province of New Brunswick. Its policy is to acquire as complete collections as possible of local material. At present it has the largest collection extant in eastern Canadian archeology, zoology, botany, entomology, and paleontology, including much type material. The financial support is from the general funds of the Society, aided by appropriations from the Provincial and Municipal Governments.

*President.*—J. Roy Campbell, B.C.L., LL.D., K.C.

*Corresponding Secretary and Curator.*—W. MacIntosh.

**ST. JOHN'S COLLEGE. See ANNAPOLIS.**

**ST. LOUIS (Missouri).**

**ST. LOUIS UNIVERSITY, Mo., U.S.A. (1818.)**

*Terms* : Two semesters.

*Students* : 1,469.

**OFFICIALS.**

*President.*—Rev. B. J. Otting, S.J.

*Chancellor.*—Rev. C. T. Kohne, S.J.

*Secretary.*—Rev. M. McMenamy, S.J.

*Treasurer.*—Rev. C. T. Hoffman, S.J.

**Degrees conferred.**—A.B., A.M., B.S., Ph.B., LL.B., LL.M., B.C.S., D.D.S., M.D.

## PROFESSORS.

## FACULTY OF ARTS AND SCIENCES.

## Professors :

- Rev. C. J. Borgmeyer, *Mathematics and Astronomy*.  
 Rev. J. P. Coony, *Chemistry*.  
 Rev. J. L. Davis, *English*.  
 Rev. H. J. DeLaak, *Mathematics*.  
 Rev. H. Gruender, *Psychology*.  
 Rev. L. J. Kenny, *History*.  
 Rev. O. J. Kuhnmuensch, *Latin*.  
 D. A. Lord, *English*.  
 J. B. Louis, *Drawing*.  
 Rev. M. McMenamy, *Special Metaphysics*.  
 Rev. J. B. Macelwane, *Mathematics*.  
 Rev. A. Muntch, *Spanish and French*.  
 T. A. O'Reilly, *Surveying*.  
 Rev. W. A. Padberg, *Philosophy*.  
 A. H. Poetker, *Physics and Geology*.  
 W. S. Robb, *Chemistry*.  
 Rev. A. J. Rother, *Logic and Ontology*.  
 Rev. W. J. Ryan, *Mathematics*.  
 Rev. T. J. Schulte, *Chemistry*.  
 Rev. J. J. Shannon, *Physics*.  
 Rev. M. I. Stritch, *Special Metaphysics and History of Philosophy*.  
 F. A. Thornton, *Economics and Political Science*.  
 Rev. T. A. Wallace, *Ethics*.

## Associate Professor :

- H. G. Bristow, *Chemistry*.

## SCHOOL OF MEDICINE.

## Professors :

- C. Barek, *Ophthalmology*.  
 C. G. Chaddock, *Diseases of the Nervous System*.  
 W. T. Coughlin, *Surgery*.  
 H. Ehrenfest, *Gynecology and Obstetrics*.  
 W. P. Elmer, *Medicine*.  
 W. Engelbach, *Medicine*.  
 C. Glaser, *Oral Surgery and Dental Hygiene*.  
 W. W. Graves, *Nervous Diseases*.  
 J. Grindon, *Dermatology and Syphilology*.  
 B. M. Hypes, *Obstetrics*.  
 D. R. Joseph, *Physiology*.  
 B. Lewis, *Genito-Urinary Diseases*.  
 H. W. Loeb (Dean), *Throat Diseases*.  
 V. Loeb, *Oral Surgery*.  
 C. H. Neilson, *Medicine*.  
 C. M. Nicholson, *Surgery*.  
 A. G. Pohlman, *Anatomy*.  
 D. M. Schoemaker, *Anatomy*.  
 M. G. Seelig, *Surgery*.  
 R. L. Thompson, *Pathology*.  
 J. Zahorsky, *Children's Diseases*.

## Associate Professors :

- C. E. Burford, *Genito-Urinary Diseases*.  
 A. Kuntz, *Anatomy and Biology*.

## Associate Professors—Continued :

- W. E. Leighton, *Surgery*.  
 C. Smith, *Surgery and Surgical Pathology*.  
 P. H. Swahlen, *Obstetrics and Gynecology*.  
 Assistant Professors :  
 F. W. Bailey, *Surgery*.  
 L. Boisliniere, *Medicine*.  
 J. M. Brady, *Diseases of Children*.  
 J. McH. Dean, *Surgery*.  
 M. S. Fleisher, *Pathology and Bacteriology*.  
 A. E. Horwitz, *Orthopedic Surgery*.  
 E. E. Kurtzeborn, *Genito-Urinary Diseases*.  
 G. Lippmann, *Children's Diseases*.  
 S. T. Lipsitz, *Medicine*.  
 H. S. McKay, *Surgery*.  
 F. Neuhoft, *Medicine*.  
 L. Rassieur, *Surgery*.  
 H. J. Scherck, *Genito-Urinary Diseases*.  
 F. J. Tainter, *Anatomy*.  
 H. Wheelon, *Physiology*.  
 W. S. Wiatt, *Surgery*.

## SCHOOL OF DENTISTRY.

## Professors :

- J. P. Harper (Dean).  
 S. T. McMillin, *Dental Anatomy*.  
 E. B. Owen, *Prosthetic Dentistry*.  
 H. A. Rathbun, *Dental Pathology*.  
 R. B. Rode, *Crown and Bridge Work*.  
 F. C. Rodgers, *Orthodontia*.  
 G. B. Winter, *Exodontia*.

## SCHOOL OF DIVINITY.

## Professors :

- Rev. R. S. Johnston, *Apologetics*.  
 Rev. F. B. Klocker, *Dogmatic Theology*.  
 Rev. L. A. Lilly, *Canon Law*.  
 Rev. T. A. McCourt, *Sacred Scripture and Hebrew*.  
 Rev. F. X. Mannhardt, *Ecclesiastical History*.  
 Rev. F. J. O'Boyle (Dean), *Moral Theology*.  
 Rev. B. J. Otten, *Dogmatic Theology*.  
 Rev. W. F. Robison, *Apologetics*.  
 Rev. J. L. Spaeth, *Dogmatic Theology and Hebrew*.

## SCHOOL OF COMMERCE AND FINANCE.

## Professors :

- F. C. Belser, *Cost Accounting*.  
 R. C. Brown, *Accounting*.  
 Rev. J. L. Davis, *Public Speaking*.  
 H. C. Dyer, *Law*.  
 D. T. Farnham, *Industrial Engineering*.  
 T. L. Gaukel, *Commerce*.  
 F. A. Thornton, *Economics*.  
 G. W. Wilson, *Dean*.

### Assistant Professors :

A. F. Barnes, *Accounting*.  
H. L. Hunt  
C. J. Kehoe, *Commerce*.  
J. E. King, *Law*.  
C. R. Laws, *Accounting*.  
R. F. McNally, *Finance*.  
J. Sheppard-Smith, *Finance*.  
E. H. Wagner, *Accounting*.

### INSTITUTE OF LAW.

#### Professors :

P. Bakewell, *Dean*.

**Museum.**—The University Museum.

**Library.**—The University Library. *Librarian*: Rev. C. H. Cloud, S.J. Each Department has a special library.

WASHINGTON UNIVERSITY, St. Louis, Mo., U.S.A. (1853.)

*Terms*: Two per year.

*Students*: 3,311, including School of Fine Arts, and those in Division of University Extension.

### OFFICIALS.

*President.*—Robt. Somers Brookings.

*Chancellor.*—Frederic Aldin Hall.

*Treasurer and Secretary to Corporation.*—L. Kotany.

**Degrees conferred.**—Ph.D., A.M., M.Arch., A.B., B.S., C.E., E.E., M.E., LL.D., B.Arch., D.D.S., M.D.

### COLLEGE OF ARTS AND SCIENCES.

#### Professors :

O. Heller, *German Language and Modern European Literature*.  
F. W. Shipley, *Latin*.  
E. J. Swift, *Psychology and Education*.  
G. Douay, *French Language and Literature*.  
H. Smith, *Drawing and History of Art*.  
R. G. Usher, *History*.  
W. E. McCourt, *Geology*.  
L. R. McMaster, *Chemistry*.  
W. H. Roever, *Pure Mathematics*.  
W. R. Mackenzie, *English*.  
L. Pyle, *Physics*.  
G. O. James, *Applied Mathematics*.  
W. M. Craigie, *Military Science and Tactics*.  
C. Gwer, *Geology*.  
G. Stephens, *Sociology*.

#### Associate Professors :

W. H. Chenery, *Romanic Language*.  
C. E. Cory, *Philosophy*.  
G. I. Dale, *Spanish and Italian*.  
O. Dunkel, *Mathematics*.  
T. S. Duncan, *Greek and Latin*.

#### Assistant Professors :

P. Seiberth, *German*.  
F. C. Walker, *English*.  
A. Taylor, *German*.  
T. R. Ball, *Chemistry*.  
J. H. Brown, *French*.

### Professors—Continued :

I. V. Barth, *Equity*.  
C. O. Bishop, *Criminal Law*.  
A. G. Eberle, *Contracts and Partnerships*.  
S. E. Edmunds, *International Law*.  
F. L. English, *Torts and Corporations*.  
J. H. Grimm, *Civil Procedure*.  
Rev. L. A. Lilly, *Roman and Canon Law*.  
J. McDonald, *Constitutional Law*.  
A. H. Robbins, *Real Property*.  
W. F. Woerner, *Wills*.

### Assistant Professors—Continued :

P. R. Rider, *Mathematics*.  
F. B. Hanson, *Zoology*.  
L. F. Thomas, *Geology*.  
C. Stephenson, *History*.  
O. H. Pierce, *Chemistry*.  
W. D. Shipton, *Geology*.  
W. W. Hollingsworth, *Political Science*.  
F. M. Webster, *English*.  
E. Tavenner, *Latin and Greek*.  
R. R. Hollingsworth, *Education*.  
C. F. Hagenow, *Physics*.  
R. P. Bieber, *History*.  
R. F. Jones, *English*.  
F. P. Hardaway, *Military Science and Tactics*.  
C. E. Cullen, *Economics*.

Directors of Physical Training for Men and Women, 15 Instructors, 2 Lecturers, 2 Teaching Fellows, 11 Assistants.

### SCHOOLS OF ENGINEERING AND ARCHITECTURE.

#### Professors :

J. L. Van Ornum, *Civil Engineering*.  
A. S. Langsdorf, *Electrical Engineering*.  
E. L. Ohle, *Mechanical Engineering*.  
G. Ferrand, *Design*.

#### Associate Professors :

F. A. Berger, *Mechanical Engineering*.  
H. G. Hake, *Electrical Engineering*.  
E. O. Sweetser, *Civil Engineering*.  
L. Hill, *Architecture*.



**Assistant Professors :**

- A. E. Fitch, *Architectural Construction*.  
F. W. Bubb, *Applied Mathematics*.  
7 Instructors, 1 Assistant.

**SCHOOL OF COMMERCE AND  
FINANCE.**

**Professors :**

- W. F. Gephart, *Economics*.  
G. E. Putnam, *Banking and Finance*.  
I. Lippincott, *Economics*.  
W. S. Krebs, *Accounting*.

**Associate Professors :**

- C. E. Persons, *Sociology*.  
1 Lecturer, 10 Special Lecturers.

**SCHOOL OF BOTANY.**

**Professors :**

- G. T. Moore, *Botany*.  
B. M. Duggar, *Plant Physiology*.  
J. M. Greenman, *Botany*.  
E. A. Burt, *Botany*.  
2 Teaching Fellows.

**THE SCHOOL OF LAW.**

**Professors :**

- T. Williams, *Commercial Law*.  
J. H. Zumbalen, *Law*.  
E. B. Conant, *Law*.  
5 Lecturers.

**SCHOOL OF MEDICINE.**

**Professors :**

- J. B. Shapleigh, *Otology*.  
G. Dock, *Medicine*.  
J. Erlanger, *Physiology*.  
E. L. Opie, *Pathology*.  
P. A. Shaffer, *Biological Chemistry*.  
R. J. Terry, *Anatomy*.  
L. Loeb, *Comparative Pathology*.  
W. McK. Marriott, *Pediatrics*.  
E. A. Graham, *Surgery*.  
E. K. Marshall, jr., *Pharmacology*.  
H. Schwarz, *Obstetrics*.  
P. Y. Tupper, *Surgery*.

Museum.—A Dental Museum.

**Libraries.—**

- Arts and Sciences, 85,000 volumes, 14,000 pamphlets.  
Botany, 36,000 volumes, 47,000 pamphlets.  
Law School, 20,000 volumes.  
Medical, 26,680 volumes.  
Dental, 6,000 volumes.  
Fine Arts, 2,330 volumes, 2,200 pamphlets.

*Librarians :* J. A. McMillen, R. H. McRoberts, Miss E. B. Lawrence, Miss L. G. Glaser.

**AFFILIATED INSTITUTION.**

Mary Institute: a secondary school for girls.

**CONCORDIA THEOLOGICAL SEMINARY**, St. Louis, Mo., U.S.A. (1839.)

*Terms :* September to June.

*Students :* 378.

*Budget :* Expenses are defrayed by Evangelical Lutheran Synod of Missouri, Ohio, and other States.

**Professors Continued :**

- F. R. Fry, *Neurology*.  
H. G. Madd, *Surgery*.  
G. M. Tuttle, *Pediatrics*.  
E. S. Smith, *Medicine*.  
A. E. Ewing, *Ophthalmology*.  
G. Sluder, *Laryngology and Rhinology*.  
M. F. Engman, *Dermatology*.  
B. S. Veeder, *Clinical Pediatrics*.  
E. Sachs, *Clinical Neurological Surgery*.  
N. Allison, *Clinical Orthopedic Surgery*.  
S. I. Schwab, *Clinical Neurology*.

**Associate Professors :**

- G. C. Robinson, *Medicine*.  
A. E. Taussig, *Clinical Medicine*.  
C. H. Danforth, *Anatomy*.  
P. C. Jeans, *Pediatrics*.  
M. T. Burrows, *Pathology*.  
1 Lecturer, 20 Associates, 29 Instructors, 42 Assistants.

**SCHOOL OF DENTISTRY.**

**Professors :**

- J. H. Kennerly, *Clinical Dentistry and History of Dentistry*.  
W. M. Bartlett, *Prosthetic Dentistry*.  
B. E. Lischer, *Orthodontics*.  
B. N. Pippin, *Operative Dentistry*.  
O. H. Campbell, *Physiology*.  
V. P. Blair, *Oral Surgery*.  
J. E. Cook, *Bacteriology and General Pathology*.  
E. P. Brady, *Chemistry, Materia Medica, Metallurgy, Pathology, and Therapeutics*.  
M. Pitzman, *Anatomy*.

**Associate Professors :**

- J. D. White, *Prosthetic Dentistry*.  
L. G. Neuhoft, *Dental Anatomy*.  
5 Instructors, 4 Lecturers, 3 Assistants.

**SCHOOL OF FINE ARTS.**

*Director :* E. H. Wuerpel.  
10 Instructors.

**OFFICIALS.***President.*—Rev. Prof. F. Pieper, D.D.*Librarian.*—Rev. Prof. E. Pardieck.

Staff of 8 Professors.

**AFFILIATED INSTITUTIONS.**

Eight preparatory colleges at Fort Wayne, Ind.; Milwaukee, Wis.; St. Paul, Minn.; Concordia, Mo.; Bronxville, N. Y.; Winfield, Kans.; Conover, N. Carolina.; Oakland, Cal.

**THE MISSOURI BOTANICAL GARDEN, St. Louis, Mo.**

Missouri Botanical Garden, founded by Henry Shaw. Extensive indoor and outdoor collections of about 11,000 plants.

**OFFICIALS.***Director.*—G. T. Moore.E. A. Burt, *Mycologist.*B. M. Duggar, *Physiologist in charge of*  
*Graduate Laboratory.*H. Von Schrenk, *Pathologist.*J. M. Greenman, *Curator of Herbarium.*G. H. Pring, *Floriculturist.*

**Library.**—82,526 books, 832,526 herbarium specimens. Laboratories for graduate work in botany. *Librarian:* E. A. Burt.

**ST. LOUIS OBSERVATORY.** See **ST. HELIER.****ST. MICHAEL'S COLLEGE.** See **TORONTO.****ST. PAUL (Minnesota).****EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.***Director.*—R. W. Thatcher.**ST. PAUL'S COLLEGE.** See **CALCUTTA.****ST. STEPHEN'S COLLEGE.** See **DELHI.****SANATAM DHARAM COLLEGE.** See **LAHORE.****SAN JOSE (California).****COLLEGE OF THE PACIFIC, San Jose, California. (1851.)***Terms:* Two per year.*Students:* 410.**OFFICIALS.***President.*—Tully Cleo Knoles, A.M., D.D.*Dean.*—A. M. Kline, Ph.D.*Registrar.*—C. E. Corbin, A.M.**Degrees conferred.**—A.B., B.M.**PROFESSORS.****COLLEGE OF LIBERAL ARTS.****Professors:**A. M. Kline, *History and Political Science.*J. W. Harris, *Education.*C. M. Cox (Miss), *German.*H. B. Schwartz, *English.*A. Bonner, *Philosophy.*F. L. Farley, *Ancient Languages.*E. K. Owen (Mrs.), *Economics.*S. Rykoff (Miss), *Spanish.*W. Schwartz, *French.***COLLEGE OF SCIENCE.****Professors:**L. S. Kroeck, *Biology.*S. R. Cook, *Mathematics, Physics, and Astronomy.*R. Neal, *Chemistry and Geology.*C. E. Corbin, *Engineering and Applied Mathematics.*

3 Instructors and 2 Teaching Fellows.

**CONSERVATORY OF MUSIC.****Professors:**H. H. Hanson, *Theory and Composition.*C. M. Dennis, *Public School Music.*

12 Assistants.

**Post-Graduate Courses.**—In Music and Expression.

**Library.**—The original library was destroyed by fire in 1914. The present library contains about 8,000 volumes.

**Institute.**—A well-equipped observatory.

AFFILIATED INSTITUTE.  
Conservatory of Music, San Jose.

### SANTA CLARA (California).

**OBSERVATORY OF SANTA CLARA**, Santa Clara, California.

*Director.*—J. I. Ricard.

The Observatory of Santa Clara deals in Astronomy, Meteorology, and Seismology. Established 1900. Publishes daily and monthly forecasts of the weather, also an occasional Seismological Bulletin.

Main object of the Observatory has been "Relation of Sun-spots to Weather." Remarkable discoveries have been published in Observatory Magazine called "Sun-spot."

### SANTA FE (New Mexico).

**SCHOOL OF AMERICAN RESEARCH**, Santa Fe, New Mexico.

*Budget* : \$28,000.

#### OFFICIALS.

*Director.*—E. L. Hewett.

*Acting Director.*—P. A. F. Walter.

8 Associates.

#### Libraries.—

The Finck Linguistic Library.

Library of the New Mexico Historical Society.

Archeological and Anthropological Library.

#### Institute and Society.—

Santa Fe Society of the Archeological Institute of America.

New Mexico Archeological Society.

#### AFFILIATED INSTITUTIONS.

Museum of New Mexico, Santa Fe, N.M.

The San Diego Museum, San Diego, California.

### SASKATOON (Canada).

**UNIVERSITY OF SASKATOON**, Saskatoon, Canada. (1907.)

*Terms* : Two per year.

*Students* : 480.

*Budget* : For current expenses, \$290,000.

#### OFFICIALS.

*Chancellor.*—Sir F. W. G. Haultain, LL.D.

*President.*—W. C. Murray, LL.D.

*Registrar.*—A. R. Weir, B.A.

**Degrees conferred.**—B.A., white; B.Sc., slate blue; B.S. (Agr.), light blue; B.E. (Engin.), maroon; B.Acc. (Accounting), silver grey; B.S.P. (Phar.), brown; LL.B., gold.

#### FACULTIES OR DEPARTMENTS.

*Dean of the Faculty of Arts and Science.*—G. H. Ling, Ph.D.

*Dean of the Faculty of Agriculture.*—W. J. Rutherford, B.S.A.

*Acting Dean of the Faculty of Law.*—A. Moxon, B.C.L.

*Acting Dean of the Faculty of Engineering.*—C. J. Mackenzie, M.C.E.

*Professor in Charge of the School of Pharmacy.*—A. Campbell.

*Professor in Charge of the School of Accounting.*—J. Neilson,

## PROFESSORS.

## FACULTY OF ARTS AND SCIENCES.

## Professors :

W. P. Thompson, *Biology*.  
 J. S. Dexter                   "  
 R. D. MacLaurin, *Chemistry*.  
 T. Thowaldson               "  
 W. W. Swanson, *Economics*.  
 R. A. Wilson, *English*.  
 W. D. Thomas               "  
 A. S. Morton, *History*.  
 F. H. Underhill           "  
 W. Ramsay, *Greek*.  
 W. G. Sullivan, *Latin*.  
 J. A. Macdonald, *French*.  
 J. W. Eaton, *German*.  
 M. J. Munro, *Hebrew*.  
 G. H. Ling, *Mathematics*.  
 L. L. Dines                   "  
 T. N. Willing, *Natural History*.  
 J. A. Sharrad, *Philosophy*.  
 J. L. Hogg, *Physics*.  
 J. M. Adams               "  
 11 Lecturers.

## FACULTY OF AGRICULTURE.

## Professors :

W. J. Rutherford, *Agriculture*.  
 A. M. Shaw, *Animal Husbandry*.  
 H. J. Tisdale               "               "

Post-Graduate Courses.—For M.A., M.Sc., and M.S.A.

Library.—25,000 volumes. Librarian: A. S. Morton. Assistant Librarian: Miss A. M. Mackay.

## AFFILIATED INSTITUTIONS.

Emmanuel College, Saskatoon.  
 St. Thad's College, Regina.  
 Presbyterian Theological College, Saskatoon.

SEALE HAYNE AGRICULTURAL COLLEGE. See NEWTON ABBOT.

## SERAMPORE (India).

SERAMPORE COLLEGE, Serampore, Bengal, India. (1818.)

Incorporated by Royal Charter, 1827.

Office of the College Council: 19, Furnival St., E.C.

Theological Senate operates under the Charter.

Affiliated to the University of Calcutta, in Arts.

Terms : Three a year.

Students : 351.

## OFFICIALS.

Principal and President of the Faculty.—Rev. G. Howells, M.A., B.D., B.Litt., Ph.D.  
 Vice-Principal and Registrar.—Rev. John Drake, M.A., B.D.

## STAFF.

HIGHER THEOLOGICAL  
DEPARTMENT.

## Professors:

G. Howells, *History of Religions and Sanskrit Religious Literature*.  
 J. Drake, *Theology and Moral Philosophy*.  
 S. C. Mukerji, *Church History*.  
 J. N. Rawson, *Philosophy of Religion and Natural Science*.

## Professors—Continued :

W. S. Lindsay, *Bacteriology and Pathology*.  
 A. K. Greig, *Engineering (Agricultural)*.  
 J. Smith                   "               "  
 E. A. Hardy               "               "  
 K. G. Mackay, *Dairying*.  
 A. E. Potts               "  
 J. Bracken, *Field Husbandry*.  
 R. R. Baker, *Poultry*.  
 2 Lecturers.

## FACULTY OF LAW.

## Professors :

A. Moxon, *Law*.  
 I. A. Mackay, *Law*.  
 4 Lecturers.

## FACULTY OF ENGINEERING.

## Professor :

C. J. Mackenzie, *Civil Engineering*.

## SCHOOL OF PHARMACY.

## Professor :

A. Campbell, *Pharmacy*.

## SCHOOL OF ACCOUNTING.

## Professor :

J. Neilson, *Accounting*.



# ARTS DEPARTMENT.

The above Professors teach in the Arts Department.

## Lecturers :

J. N. Chuckerburty, *English*.  
D. N. Ghosal, *Philosophy*.  
N. N. Mukerji, *History*.  
H. P. Sen Gupta, *Sanskrit*.

## Lecturers—Continued :

K. K. Mukerji, *Mathematics*.  
A. K. Bhattacharyya, *Sanskrit*.  
D. Banerji, *Political Economy*.  
A. K. Ghose, *English*.  
A. Chowdhuri, *History*.  
P. K. Vidyabinod, *Sanskrit*.  
H. N. Ray, *Chemistry*.  
1 Demonstrator.

**Library.**—A Library of 12,000 works with some valuable Sanskrit Catalogues, early Reviews, and other items of special interest and value.

# SHEFFIELD.

**THE UNIVERSITY OF SHEFFIELD**, Western Bank and St. George's Square, Sheffield. (1905.)

*Terms* : Three per year.

*Students* (1917-18) : 468.

## OFFICIALS.

*Chancellor.*—The Most Hon. the Marquess of Crewe, K.G.

*Pro-Chancellors.*—Col. H. K. Stephenson, D.S.O., M.P., LL.D., J.P.

*Vice-Chancellor.*—Sir W. H. Hadow Knight, M.A., D.Mus.

*Treasurer.*—D. Vickers, M.P., J.P.

*Registrar.*—W. M. Gibbons, M.A.

*Dean of the Faculty of Arts.*—Prof. Leahy, M.A.

*Dean of the Faculty of Pure Science.*—Prof. Wynne, D.Sc., F.R.S.

*Dean of the Faculty of Medicine.*—Prof. Leathes, M.A., M.B., F.R.C.S., F.R.S.

*Dean of the Faculty of Law.*—Prof. Trotter, M.A., LL.D., K.C.

*Dean of the Faculty of Engineering.*—Prof. Ripper, C.H., D.Eng., D.Sc., M.Inst., C.E., J.P.

## Degrees conferred :

### Degrees.

B.A.	- - -	Green stuff, lined with white fur, edged with crushed strawberry.
B.Eng.	- - -	Green stuff, lined with white fur, edged with purple.
B.Met.	- - -	Green stuff, lined with white fur, edged with steel grey.
B.Sc.	- - -	Green stuff, lined with white fur, edged with apricot.
M.B., Ch.B.	- - -	Green stuff, lined with white fur, edged with red.
Ch.M.	- - -	Green silk, lined with red, edged with white.
D.Eng.	- - -	Red silk, lined with purple.
D.Met.	- - -	Red silk, lined with steel grey.
D.Sc.	- - -	Red silk, lined with apricot.
Litt.D.	- - -	Red silk, lined with crushed strawberry.
LL.B.	- - -	Red silk, lined with pale green.
LL.D.	- - -	Green silk, lined with pale green.
M.A.	- - -	Green silk, lined with crushed strawberry.
M.D.	- - -	Red silk, lined with red.
M.Eng.	- - -	Green silk, lined with purple.
M.Met.	- - -	Green silk, lined with steel grey.
M.Sc.	- - -	Green silk, lined with apricot.

### Hoods.

## PROFESSORS.

### FACULTY OF ARTS.

#### Professors :

W. C. Summers, *Latin*.  
C. G. M. Smith, *English Languages and Literature*.  
A. T. Baker, *French*.  
H. W. Appleton, *Ancient and Modern History*.  
A. H. Leahy, *Mathematics*.  
J. A. Green, *Education*.  
W. Rothenstein, *Civic Art*.

#### Lecturers :

E. S. Forster, *Greek*.  
F. Whitehead (Miss), *Latin*.  
J. D. Jones, *English Language and Literature*.  
L. A. Willoughby, *German*.  
G. A. Birkett, *Russian*.  
J. N. Birch, *Spanish*.  
L. V. D. Owen, *Ancient and Modern History*.  
M. Perham (Miss), *Ancient and Modern History*.

**Lecturers—Continued :**

- B. M. Laing, *Philosophy*.  
D. Knoop, *Economics*.  
T. E. Shuttleworth, *Accounting*.  
W. A. Bone (Miss), *Education*.  
E. M. A. King (Miss) „  
W. Vickers, *Education*.  
H. Coward, *Music*.  
W. S. Purchon, *Architecture*.  
6 Assistant Lecturers, 4 Honorary Lecturers.

**FACULTY OF PURE SCIENCE.**
**Professors :**

- A. H. Leahy, *Mathematics*.  
S. R. Milner, *Physics*.  
W. P. Wynne, *Chemistry*.  
A. Denny, *Zoology*.  
J. B. Leathes, *Physiology*.  
W. G. Fearnside, *Geology*.  
J. A. Green, *Education*.

**Lecturers :**

- R. S. Thompson (Engineering Department), *Mathematics*.  
L. Southern, *Physics*.  
W. E. Curtis „  
J. Kenner, *Chemistry*.  
A. S. Russell, *Physical Chemistry*.  
B. H. Bently, *Botany*.  
E. C. Eaves (Miss), *Physiology*.  
W. H. Wilcockson, *Geology*.  
J. R. Thompson, *Education*.  
E. M. A. King (Miss), *Education*.  
W. A. Bone (Miss) „  
W. Vickers, *Education*.  
R. N. R. Brown, *Geography*.  
9 Assistant Lecturers, 2 Demonstrators.

**FACULTY OF MEDICINE.**
**Professors :**

- W. P. Wynne, *Chemistry*.  
S. R. Milner, *Physics*.  
A. Denny, *Biology*.  
C. J. Patton, *Anatomy*.  
J. B. Leathes, *Physiology*.  
A. J. Hall, *Medicine*.  
A. Connell, *Surgery*.  
J. S. C. Douglas, *Pathology*.  
P. E. Barber, *Midwifery*.  
H. Seurfield, *Public Health*.

**Lecturers :**

- J. Kenner, *Organic Chemistry*.  
A. S. Russell, *Physical Chemistry*.  
L. Southern, *Physics*.  
W. E. Curtis „  
L. Naish (Mrs.), *Osteology*.  
E. C. Eaves (Miss), *Physiology*.  
A. E. Barnes, *Medicine*.  
A. E. Naish „  
G. Simpson, *Surgery*.  
A. Cuff, *Surgery*.  
M. H. Phillips, *Diseases of Women*.

**Lecturers—Continued :**

- A. E. Barnes, *Materia Medica, Pharmacology, and Therapeutics*.  
G. H. Pooley, *Ophthalmology*.  
G. Wilkinson, *Diseases of the Ear, Nose, and Throat*.  
E. H. Williams, *Infectious Diseases*.  
W. Vincent, *Mental Diseases*.  
H. Leader, *Diseases of Children*.  
D. G. Newton, *Vaccination*.  
6 Assistant Lecturers, 7 Demonstrators.

**FACULTY OF LAW.**
**Professors :**

- W. F. Trotter, *Law*.  
H. W. Appleton, *Constitutional History*.

**Lecturers :**

- O. K. Metcalfe, *Public and Common Law*.  
D. Knoop, *Economics*.  
T. E. Shuttleworth, *Accounting*.  
1 Assistant Lecturer.

**FACULTY OF ENGINEERING.**
**Professors :**

- W. Ripper, *Mechanical Engineering*.  
F. E. Armstrong, *Mining Engineering*.  
L. T. O'Shea, *Applied Chemistry*.  
A. H. Leahy, *Mathematics*.  
S. R. Milner, *Physics*.  
W. P. Wynne, *Chemistry*.  
W. G. Fearnside, *Geology*.

**Lecturers :**

- F. Boulden, *Mechanical Engineering*.  
J. W. Kershaw „ „  
W. G. Hibbins „ „  
C. W. Waite „ „  
G. W. Burley „ „  
E. H. Cranper, *Electrical Engineering*.  
T. F. Wall „ „  
J. Husband, *Civil Engineering*.  
I. E. F. Stalham, *Mining Engineering*.  
A. E. Findley, *Applied Chemistry*.  
R. S. Thompson (Engineering Department), *Mathematics*.  
L. Southern, *Physics*.  
W. E. Curtis „  
J. Kenner, *Organic Chemistry*.  
A. S. Russell, *Physical Chemistry*.  
W. S. Purchon, *Building Construction*.  
W. E. S. Turner, *Glass Technology*.  
J. H. Davidson „ „  
S. English „ „  
1 Hon. Lecturer, 9 Assist. Lecturers.  
3 Demonstrators, 5 Research Assistants.

**FACULTY OF METALLURGY.**
**Professors :**

- Vacant, *Ferrous and Non-Ferrous Metallurgy*.  
A. H. Leahy, *Mathematics*.  
S. R. Milner, *Physics*.  
W. P. Wynne, *Chemistry*.

**Lecturers :**

F. K. Knowles, *Ferrous and Non-Ferrous Metallurgy*.  
 F. Ibbotson, *Ferrous and Non-Ferrous Metallurgy*.  
 J. H. Wreaks, *Ferrous and Non-Ferrous Metallurgy*.  
 G. B. Brook, *Ferrous and Non-Ferrous Metallurgy*.

**Lecturers—Continued :**

F. C. Thompson, *Ferrous and Non-Ferrous Metallurgy*.  
 R. S. Thompson (Engineering Department), *Mathematics*.  
 L. Southern, *Physics*.  
 W. E. Curtis, "  
 J. Kenner, *Organic Chemistry*.  
 A. S. Russell, *Physical Chemistry*.

7 Assistant Lecturers, 4 Demonstrators.

**Post-Graduate Courses—Faculty of Arts.**—Post-Graduate Courses are held leading up to the Diploma in Education, and the Diploma in Modern Language Teaching.

**Faculty of Medicine.**—The University awards a Diploma in Public Health, and Courses for the Diploma are held.

**Degree of Doctor of Philosophy.**—The Degree of Doctor of Philosophy (Ph.D.) is awarded in the Faculty of Arts, Pure Science, Law, Engineering, and Metallurgy. This degree is awarded on Post-Graduate study and Graduates of the University of Sheffield, and other approved Universities are eligible for this degree.

**Library.**—The Edgar Allen Library, 58,000 volumes.

**Museums.**—Of Anatomy and Anthropology, Pathology, Zoology, Botany. *Curator:* A. J. Hall, M.A., M.D.

University Observatory. *Curator:* A. H. Leahy, M.A.

**SIALKOT (India).**

**MURRAY COLLEGE**, Sialkot, Punjab. (1889.)

Affiliated to the University of the Punjab, Lahore.

*Students* : 150.

**OFFICIALS.**

*Principal.*—Rev. W. Scott, M.A., B.D.

*Vice-Principal.*—J. Garrett, M.A.

10 Professors.

**SIBPUR (India).**

**THE CIVIL ENGINEERING COLLEGE**, Sibpur, Bengal. (1880.)

*Sessions* : One yearly.

*Students* : 350.

*Budget* : Rs. 2,80,000. The Funds are provided entirely by the Government of Bengal.

**OFFICIAL.**

*Principal.*—B. Heaton.

**Degrees and Hoods.**—As specified by Calcutta University.

**PROFESSORS.**

**Professors :**

T. H. Richardson, *Civil Engineering*.  
 E. H. Robertson, *Mining Engineering*.

B. C. Gupta, *Electrical Engineering*.  
 (Vacant), *Mechanical Engineering*.

A. MacDonald, *Physics and Mathematics* (Acting).

**Professors—Continued :**

S. M. Maitra, *Physics and Mathematics*.  
 W. Saunders, *Chemistry*.

**Assistant Professors :**

J. V. Frances, *Drawing*.  
 P. C. Ganguli, *Mechanical Engineering*.  
 4 Instructors, 2 Teachers, 4 Demonstrators, 1 Visiting Lecturer.

**Library.**—Contains 10,000 books. *Librarian* : W. Saunders.

**ROYAL BOTANIC GARDEN.**

Under the Government of Bengal.

Founded 1787. Extent 273 acres. Situated on the right bank of the river Hughli, about four miles south-west of Calcutta. The Eden Gardens, Dalhousie

Square Garden, and Curzon Garden in the city of Calcutta, also the Lloyd Botanic Garden in Darjeeling, and the Cinchona Plantations and Quinine Factory of the Government of Bengal, are also attached to it for administrative purposes. The Royal Botanic Garden, Calcutta, is the headquarters of the Botanical Survey of India, under which is the Industrial Section of the Indian Museum in Calcutta.

The Garden contains the largest herbarium (nearly a million sheets) and botanical library in the Indian Empire. The herbarium is particularly rich in Indian species of flowering plants, but the flora of other regions of the world is also fairly represented in it.

#### STAFF OF THE ROYAL BOTANIC GARDEN.

Sibpur, Calcutta.

*Superintendent.*—Lieut.-Colonel A. T. Gage, I.M.S., M.A., B.Sc., M.B., C.M., F.L.S., F.A.S.B.

*Acting Superintendent.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Curator of the Herbarium.*—C. C. Calder, B.Sc., B.Sc., F.L.S.

*Curator of the Garden.*—G. T. Lane.

*Acting Curator of the Garden.*—P. V. Osborne.

#### LLOYD BOTANIC GARDEN, Darjeeling.

*Superintendent.*—Lieut.-Colonel A. T. Gage, I.M.S.

*Acting Superintendent.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Curator.*—G. H. Cave.

#### CINCHONA PLANTATIONS.

*Superintendent.*—Lieut.-Colonel A. T. Gage, I.M.S.

*Acting Superintendent.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Government Quinologist.*—G. E. Shaw, B.Sc., F.I.C., F.C.S.

*Assistant Quinologist.*—(Vacant.)

*Manager of Mungpoo Plantation.*—P. T. Russell.

*Acting Manager of Mungoo Plantation.*—H. Thomas.

#### BOTANICAL SURVEY OF INDIA.

*Director and Officer in Charge of the Industrial Section, Indian Museum.*—Lieut.-Colonel A. T. Gage, I.M.S.

*Acting Director.*—C. C. Calder, B.Sc., B.Sc. (Agric.).

*Economic Botanist.*—H. G. Carter, M.B., Ch.B.

*Assistant Botanist.*—P. M. Debburman.

*Assistant Botanist.*—V. Narayanaswami.

#### SIMLA (India).

##### BUREAU OF EDUCATION, Simla, India.

*Educational Commissioner with the Government of India.*—The Hon. H. Sharp, C.S.I., C.I.E.

*Curator (Bureau of Education).*—G. R. Kaye.

*Assistant.*—Fazl Elahi Quraishi.

*Librarian.*—M. N. Basu.

The Library contains about 100,000 volumes.

**Publications.**—Some of the recent publications of the Bureau of Education:

Progress of Education in India, 1912-17. Seventh Quinquennial Review (2 volumes).

Annual Narratives (Indian Education, 1913-1918).

Occasional Reports, Nos. 1-8.

Pamphlets, Nos. 1-7.

##### INDIAN METEOROLOGICAL DEPARTMENT, Simla, India.

Founded in 1876 by the Government of India with the object of co-ordinating and developing the meteorological, astronomical, and magnetic work previously carried on by the Local Governments. Seismology has since been added to its activities.



## GAZETTED OFFICERS.

*Director-General of Observatories.*—G. T. Walker, C.S.I., M.A., Sc.D., F.R.S.  
*Director of the Aerological Observatory, Agra.*—J. H. Field.  
*Assistant Director of the Aerological Observatory, Agra.*—W. A. Harwood.  
*Director of the Kodaikanal and Madras Observatories.*—J. Evershed.  
*Assistant Director of the Kodaikanal and Madras Observatories.*—T. Royds.  
*Director of the Bombay and Alibag Observatories.*—T. K. Chinmayanandam.

## Imperial Meteorologists.

G. C. Simpson.  
 C. W. B. Normand.  
 Rai Bahadur Hem Raj.

## Meteorologists :

E. P. Harrison.  
 H. M. Finch.  
 R. Ll. Jones.

## DEPARTMENTAL OBSERVATORIES AND OFFICES.

The Central Offices are at Simla, from which a weather report for the whole of the Indian area is published daily. Provincial offices exist at Calcutta, Bombay, and Madras, from which daily weather reports relating to portions of India are issued. There are first-class observatories at Calcutta, Bombay, Madras, Kodaikanal, and Lahore; third-class observatories at 181 stations; fourth class at 23; and fifth class at 24. In addition to the above there are 38 observatories maintained at the expense of Indian States and working in conjunction with the Imperial Department; these stations regularly supply data to the head office at Simla and comprise 2 first-class observatories (Bangalore and Jaipur); 2 second class; 26 third class; 5 fourth class; and 3 fifth class observatories.

## Periodical Publications.—

Daily, Weekly, Monthly, and Annual Weather Reports.  
 Magnetic and Meteorological Results (annual) of the Colaba Observatory.

## Non-Periodical Publications.—

Indian Meteorological Memoirs.  
 Bulletins and Memoirs of the Kodaikanal Observatory.

## SIOUX CITY (Iowa).

THE ACADEMY OF SCIENCE AND LETTERS, Public Library Building, Sioux City, Iowa. (1885.)

The Academy meets bi-monthly from October to May. The sections comprise Art, Physical Research, Municipal Research, Political Science, Ornithology, and Local History.

Publishes Proceedings.

## SITKA (Alaska).

EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.

*Director.*—C. C. Georgeson.

SMITH COLLEGE. See NORTHAMPTON.

## SOUTHAMPTON.

UNIVERSITY COLLEGE, Southampton. (1902.)

*Terms :* Three a year.

## OFFICIALS.

*Principal.*—A. Hill, M.A., M.D., F.R.C.S.  
*Registrar.*—D. Kiddle.  
*Librarian.*—Miss B. E. Horneyer.

## PROFESSORS.

## Professors :

W. F. Mason, *Classics and English Literature.*  
 E. S. Lyttel, *History and Political Economy.*

## Professors—Continued :

(Vacant), *Romance Languages.*  
 E. L. Watkin, *Mathematics.*  
 H. Stansfield, *Physics and Electrical Engineering.*

**Professors—Continued :**

D. R. Boyd, *Chemistry*.  
G. K. Sutherland, *Biology and Geology*.

**Professors—Continued :**

J. Eustice, *Civil and Mechanical Engineering*.  
J. Shelley, *Education*.

20 Lecturers.

**SOUTH AUSTRALIA, ROYAL SOCIETY OF.** See ADELAIDE.

**SOUTH DAKOTA SCHOOL OF MINES.** See RAPID CITY.

**SOUTH-EASTERN AGRICULTURAL COLLEGE.** See WYE.

**SOUTHERN CALIFORNIA ACADEMY OF SCIENCE.** See LOS ANGELES.

**SOUTHERN CALIFORNIA UNIVERSITY.** See LOS ANGELES.

**SOUTH HADLEY (Massachusetts).**

**MOUNT HOLYOKE COLLEGE,** South Hadley, Mass. (1837.)

*Terms :* Two semesters.

*Students :* 857.

*Budget :* \$601,061.15.

**OFFICIALS.**

*President.*—Miss M. E. Woolley, M.A., Litt.D., L.H.D., LL.D.

*Dean.*—Miss F. Purington, S.B., Litt.D.

*Registrar.*—Miss Caroline Greene, A.M.

*Assistant Registrar.*—Miss E. S. Dickinson, A.B.

*Treasurer.*—W. B. Adams.

**Degrees conferred.**—B.A., M.A., Hoods lined with pale blue, the College colour.

**PROFESSORS.**

**FACULTY OF ARTS.**

**Professors :**

C. F. Stevens (Miss), *English*.  
E. C. Hinsdale (Miss), *German Language and Literature*.  
M. G. Williams (Miss), *Greek Language and Literature*.  
H. M. Searles (Miss), *Latin Language and Literature*.  
W. C. Hammond, *Music*.  
E. B. Talbot (Miss), *Philosophy*.  
M. V. Young (Miss), *Romance Languages and Literatures*.  
N. Neilson (Miss), *History and Political Science*.  
A. Hewes (Miss), *Economics and Sociology*.  
C. A. Scott, *Education*.  
J. B. Dickinson (Miss), *Music*.  
H. W. Narey (Miss), *Physical Education*.  
J. M. Warbeke, *Philosophy*.  
M. G. Cushing (Miss), *Spanish*.  
M. I. Hussey (Miss), *Biblical Literature*.  
A. H. Morgan (Miss), *Zoology*.  
L. H. Wild (Miss), *Biblical Literature*.

**Associate Professors :**

A. P. Stevens (Miss), *German*.  
H. C. Flint (Miss), *Greek*.  
M. Ball (Miss), *English*.  
A. L. F. Snell (Miss), *English*.  
H. E. Hoag (Miss), *Latin*.

**Associate Professors—Continued :**

E. D. Ellis (Miss), *History and Political Science*.  
E. Rivillé-Rensch (Miss), *French*.  
I. C. Couch (Miss), *Speech*.  
C. M. Galt (Miss), *Archæology*.  
A. C. Harper (Miss), *English Literature*.  
B. T. Putnam (Miss), *History*.  
G. M. Bacon (Miss), *German*.  
A. M. Tucker, *Music*.  
M. S. Morriss (Miss), *History*.  
M. E. Taylor (Miss), *Latin*.  
G. S. Hyde (Miss), *Art*.  
D. Foster (Miss), *English Literature*.  
H. M. Cady (Miss), " "  
F. W. Foss (Miss), *Art*.  
A. P. Comstock, *Economics and Sociology*.  
M. C. Waites (Miss), *Latin*.

**Assistant Professors :**

F. L. Adams (Miss), *English*.  
H. Griffith (Miss), "  
R. Waterman (Miss), *Physical Education*.

**FACULTY OF SCIENCE.**

**Professors :**

S. E. Smith (Miss), *Mathematics*.  
E. R. Laird (Miss), *Physics*.  
M. Talbot (Miss), *Geology*.  
S. P. Hayes, *Psychology*.  
A. H. Turner (Miss), *Physiology*.

**Professors—Continued:**

E. P. Carr (Miss), *Chemistry*.  
A. G. Stokey (Miss), *Botany*.  
A. S. Young, (Miss), *Astronomy*.

**Associate Professors:**

E. C. Doak, (Miss), *Mathematics*.  
D. A. Hahn (Miss), *Chemistry*.  
M. A. Chase (Miss), *Physics*.  
E. N. Martin (Miss), *Mathematics*.

**Associate Professors—Continued:**

L. S. Stevenson (Miss), *Chemistry*.  
A. M. Starr (Miss), *Botany*.  
M. C. Shields (Miss), *Physics*.  
Z. Wallen (Miss), *Chemistry*.

**Assistant Professor:**

O. C. Hazlett (Miss), *Mathematics*.

**3 Lecturers, 39 Instructors, 20 Assistants, and 2 Readers.**

*Librarian:* Miss B. E. Blakely, B.A. *Assistant Librarian:* Miss F. E. Haynes, L.B.

**Society.**—A chapter of Phi Beta Kappa Society.

**Museums.**—

Botanical Gardens. *Director:* Asa Kinnery, S.M.  
Botanical Museum. *Curator:* Miss J. S. Agard, A.M.  
Chemistry Laboratories. *Curator:* Miss E. R. Barshed, A.B.

**SOUTH YARRA (Victoria).**

**MELBOURNE OBSERVATORY**, South Yarra, Victoria, Australia. (1863.)

Annual Expenditure, £3,200.

*Government Astronomer.*—J. M. Baldwin, M.A., D.Sc.

*Chief Assistant.*—C. J. Merfield.

Five professional assistants.

Astronomical, Magnetic, and Seismological Observatory under the Victorian State Government. Carries out also the testing of inspector's copies of the standard weights and measures.

The Magnetic Station is now at Toolangi, 38 miles N.E. of Melbourne.

**Library.**—10,000 volumes.

**NATIONAL HERBARIUM OF VICTORIA**, South Yarra.

**STAFF.**

*Government Botanist.*—A. J. Ewart, D.Sc., Ph.D.

*Assistants.*—J. R. Tovey, J. W. Audas.

*Attached.*—Miss E. Archer, M.Sc., Secretary to the Commonwealth Seed Improvement Committee.

Annual Maintenance, £1,200.

**Library.**—Comprises over 10,000 volumes.

The Herbarium contains a million and a half of sheets of specimens including 135,000 species. The Herbarium contains the major portion of the material on which Bentham's Flora of Australia was founded and also collections by Petiver, Banks and Solander, Robert Brown, Drummond, Sonder, Hooker, Baron F. V. Mueller, Siefer Forrest, Giles, etc.

**SPRINGFIELD (Illinois).**

**ILLINOIS STATE MUSEUM**, Springfield, Ill., U.S.A.

**OFFICIALS.**

*Chief.*—A. R. Crook, Ph.D.

*Assistant Curator.*—Miss F. Fisher.

*Custodian.*—R. Taylor.

*Budget (1919-1921):* \$26,000.

100,000 specimens, mostly geological; 600 type invertebrate fossils; several notable zoological and ethnological groups in large cases.

**Library.**—10,000 volumes.

**Publications.**—Guide-books, reports, special papers.

Repository of Illinois State Academy of Science.

**SRINAGAR (Kashmir).**

**SRI PARATAP COLLEGE**, Srinagar, Kashmir. (1905.)

Affiliated to the University of the Punjab.

## OFFICIALS.

*Principal*.—Pt. Quabal Kishan Shargha, B.A., F.A.U.*Librarian*.—Pt. A. Nath, B.A.

## PROFESSORS.

Pt. Q. K. Shargha, *Philosophy*.Pt. R. Kanjilal, *Sanskrit*.J. N. Das, *English*.Pt. A. Kishan, *Philosophy*.L. Sunder Das, *Science*.

Pt. Pran Nath, „

Pt. G. Ram, *Mathematics*.M. Mohammad Ishaq, *Persian*.Pt. C. Narain, *English*.

Pt. B. K. Madan, „

G. L. Gupta, *Mathematics*.B. Singh, *Biology*.N. L. Manghirmalani, *History and Economics*.Pt. N. Shastri, *Sanskrit*.

2 Demonstrators.

**STANFORD UNIVERSITY (California).****LELAND STANFORD JUNIOR UNIVERSITY**, Stanford University, Cal. (1891.)*Terms* : Organized on the Four-Quarter plan, the University being in continuous session except for the month of September. Three quarters constitute an Academic Year.**Degrees conferred**.—A.B., LL.B., A.M., C.E., E.E., M.E., etc.; J.D., M.D., Ph.D.

## OFFICIALS.

*President*.—Ray Lyman Wilbur.*Registrar*.—Orrin Leslie Elliott.*Librarian*.—George Thomas Clark.*Dean of Men*.—John Ezra McDowell.*Dean of Women*.—Harriett Bradford.*Chaplain*.—David Charles Gardner.

## PROFESSORS.

**FACULTY OF ARTS.****Professors :**L. E. Bassett, *English*.W. H. Carruth, *Comparative Literature*.A. B. Clark, *Education (Graphic Art)*.W. A. Cooper, *German*.E. P. Cubberley, *Education*.H. R. Fairclough, *Latin*.E. Greenlaw, *English*.G. Hempl, *Germanic Philology*.O. M. Johnston, *Romanic Languages*.E. Krehbiel, *History*.A. T. Murray, *Greek*.K. G. Rendtorff, *German*.A. B. Show, *European History*.J. A. Smith, *Political Science*.H. W. Stuart, *Philosophy*.J. S. P. Tatlock, *English Philology*.L. M. Terman, *Education*.P. J. Treat, *History*.V. J. West, *Political Science*.M. S. Wildman, *Economics*.**Assistant Professors :**F. B. Garver, *Economics*.H. J. Hall, *English*.Y. Ichihashi, *Japanese History and Government*.C. A. Knoch (Miss), *German*.W. M. Proctor, *Education*.

W. T. Root, jr., „

T. P. Russell (Mrs.), *English*.**Assistant Professors—Continued :**

S. S. Seward, jr.

E. W. Smith, *English*. „S. A. Smith, *French*.C. L. Starks (Mrs.), *Education (Graphic Art)*.H. P. Stolz, *Physical Training*.**Associate Professors :**C. G. Allen, *Romanic Languages*.W. D. Briggs, *English*.H. C. Brown, *Philosophy*.P. E. Davidson, *Education*.J. Elmore, *Latin*.A. M. Espinosa, *Romanic Languages*.B. O. Foster, *Latin*.H. D. Gray, *English*.E. Jones, *Economics*.E. W. Martin, *Greek*.P. A. Martin, *European History*.E. E. Robinson, *American History*.J. B. Sears, *Education*.

24 Instructors and 4 Lecturers.

**FACULTY OF SCIENCE.****Professors :**R. E. Allardice, *Mathematics*.F. Angell, *Psychology*.E. Blackwelder, *Geology*.H. F. Blichfeldt, *Mathematics*.D. H. Campbell, *Botany*.E. C. Franklin, *Organic Chemistry*.



**Professors—Continued:**

- O. H. Gilbert, *Zoology*.
- R. R. Goorich, *Metallurgy*.
- R. L. Green, *Mathematics*.
- H. Heath, *Zoology*.
- V. L. Kellogg, *Entomology*.
- J. Kendall, *Chemistry*.
- L. R. Lenox, *Analytical Engineering*.
- S. M. Parker, *Military Science and Tactics*.
- J. G. Peirce, *Botany and Plant Physiology*.
- G. C. Price, *Zoology*.
- A. F. Rogers, *Mineralogy*.
- F. Sanford, *Physics*.
- J. P. Smith, *Paleontology*.
- R. E. Swain, *Chemistry*.
- C. F. Tolman, jr., *Economic Geology*.
- B. Willis, *Geology*.
- S. W. Young, *Physical Chemistry*.

**Assistant Professors:**

- J. G. Brown, *Physics*.
- J. E. Coover, *Psychology*.
- E. R. Drew, *Physics*.
- W. K. Fisher, *Zoology*.
- H. K. Kingsbury, *Military Science and Tactics*.
- M. I. McCracken (Miss), *Entomology*.
- P. A. Ross, *Physics*.
- W. H. Sloan, *Chemistry*.
- E. C. Starks, *Zoology*.

**Associate Professors:**

- L. Abrams, *Botany*.
- L. L. Burlingame, *Botany*.
- W. F. Dietrich, *Metallurgy*.
- R. W. Doane, *Entomology*.
- J. P. Mitchell, *Chemistry*.
- F. J. Rogers, *Physics*.
- 8 Instructors.

**SCHOOL OF ENGINEERING.**

**Professors:**

- W. F. Durand, *Mechanical Engineering*.
- W. R. Eckart, " "
- J. C. L. Fish, *Railroad Engineering*.
- L. M. Hoskins, *Applied Mathematics*.
- E. P. Lesley, *Mechanical Engineering*.
- C. D. Marx, *Civil Engineering*.
- G. H. Marx, *Machine Design*.
- H. C. Moreno, *Applied Mathematics*.
- H. J. Ryan, *Electrical Engineering*.
- S. D. Townley, *Applied Mathematics*.
- C. B. Wing, *Structural Engineering*.

**Assistant Professors:**

- C. N. Cross, *Mechanical Engineering*.
- L. E. Cutter, " "
- J. H. Foss, *Civil Engineering*.
- C. Moser, " "
- H. W. Stebbins, *Mechanical Engineering*.
- H. W. Young, *Metallurgy*.

**Associate Professor:**

- W. A. Manning, *Applied Mathematics*.
- 6 Instructors.

**SCHOOL OF MEDICINE.**

**Professors:**

- A. C. Crawford, *Pharmacology*.
- A. W. Hewlett, *Medicine*.
- F. M. McFarland, *Histology*.
- W. H. Manwaring, *Bacteriology and Experimental Pathology*.
- A. W. Meyer, *Anatomy*.
- W. Ophuls, *Pathology*.
- E. Rixford, *Surgery*.
- T. G. Russell, *Surgery*.
- A. B. Spalding, *Obstetrics and Gynecology*.
- S. Stillman, *Surgery*.

**Assistant Professors:**

- E. D. Congdon, *Anatomy*.
- C. D. Mosher, *Personal Hygiene*.
- J. R. Slonaker, *Physiology*.
- H. A. Stephenson, *Obstetrics and Gynecology*.
- F. W. Weymouth, *Physiology*.
- H. H. Yerington, *Medicine (Pediatrics)*.

**Associate Professors:**

- T. Addis, *Medicine*.
- F. E. Blaisdell, *Surgery*.
- W. W. Boardman, *Medicine (Actinography)*.
- J. C. Clark, *Electrical Engineering*.
- J. F. Cowan, *Surgery*.
- E. C. Dickson, *Medicine*.
- L. W. Ely, *Surgery (Orthopedics)*.
- H. K. Faber, *Medicine (Pediatrics)*.
- C. S. Stoltenberg (Miss), *Physiology*.

**Clinical Professors:**

- W. F. Cheney, *Medicine*.
- H. P. Hill, " "
- A. W. Hoisholt, *Medicine (Psychiatry)*.
- A. B. McKee, *Surgery (Ophthalmology)*.
- R. L. Rigdon, *Surgery (Gentio-Urinary)*.
- E. C. Sewall, *Surgery (Otology, Rhinology, Laryngology)*.
- W. F. Snow, *Hygiene and Public Health*.
- G. B. Somers, *Gynecology*.

**Assistant Clinical Professors:**

- H. Barkan, *Surgery (Phththalmology)*.
- G. Dr. F. Barnett, *Medicine*.
- W. R. P. Clark, *Medicine (Tuberculosis)*.
- H. W. Gibbons, *Obstetrics and Gynecology*.
- P. K. Gilman, *Surgery*.
- F. R. Girard, *Obstetrics and Gynecology*.
- H. B. Graham, *Surgery (Otology)*.
- T. G. Inman, *Medicine (Neurology)*.
- H. Y. McNaught, *Surgery (Otology, Rhinology, Laryngology)*.
- H. G. Mehrtens, *Medicine (Neurology)*.
- H. R. Oliver, *Medicine (Serology)*.
- H. Rothganger, *Surgery*.
- M. E. Rumwell, " "
- J. M. Wolfsohn, *Medicine (Neurology)*.

**Associate Clinical Professors :**

C. M. Cooper, *Medicine*.  
 L. Eloesser, *Surgery*.  
 W. F. Schaller, *Medicine (Neurology)*.  
 22 Clinical Instructors, 10 Lecturers,  
 7 Instructors, and 1 Assistant  
 Lecturer.

2 Instructors, 43 Assistants in Instruction, 18 Technical Assistants.

**Libraries.—**

*Staff :* G. T. Clark, *Librarian*.

A. N. Hays (Miss), *Reference Librarian*.

L. Ophuls (Miss), *Medical Librarian* (Lane Medical Library).

19 Assistants.

**SCHOOL OF LAW.**

J. W. Bingham, *Law*.  
 A. M. Cathcart, "  
 C. A. Huston, "  
 M. R. Kirkwood, "  
 C. G. Vernier, "  
 C. B. Whitter, "

**STATE COLLEGE (Pennsylvania).****THE PENNSYLVANIA STATE COLLEGE, Pa. (1855.)**

In number of undergraduate candidates for degrees, the Pennsylvania State College ranks foremost among institutions in the United States organized under the name of "College."

*Terms :* Two semesters and summer session.

*Students :* 2,859 (candidates for degrees); 1,289 (not candidates for degrees).

*Budget* (for collegiate year 1917-18):

Maintenance .. .. .	\$1,050,374.78
Land .. .. .	10,072.50
New Equipments .. .. .	8,175.04
Total .. .. .	\$1,068,622.32

**OFFICIALS.**

*President*.—E. E. Sparks, M.A., Ph.D., LL.D.

*Dean of Men*.—A. R. Warnock, M.A.

*Dean of Women*.—Miss Margaret Knight, M.A.

*Dean of the School of Agriculture*.—R. L. Batts, M.S., D.Agri.

*Dean of the School of Liberal Arts*.—T. C. Blaisdell, Ph.D., LL.D.

*Dean of the School of Engineering*.—R. L. Sackett, C.E.

*Dean of the School of Natural Science*.—G. G. Pond, Ph.D.

*Dean of the School of Mines*.—E. S. Moore, Ph.D.

*Registrar*.—A. Howry Espenshade, M.A.

**Degrees conferred.**—B.A., M.A., B.S., M.S., C.E., E.E., M.E., E.M.

**SCHOOL OF LIBERAL ARTS.****Professors :**

J. M. Willard, *Mathematics*.  
 F. L. Pattee, *English and American Literature*.  
 E. W. Runkle, *Psychology and Ethics*.  
 I. L. Foster, *Romance Languages*.  
 H. T. Collings, *German*.  
 A. H. Espenshade, *Rhetoric*.  
 C. O. Harris, *Greek Language and Literature*.  
 J. T. Marshman, *Public Speaking*.  
 G. F. Zook, *Medieval and Modern History*.  
 J. P. Ritenour, *Health Service*.  
 D. A. Anderson, *Education*.  
 L. V. T. Simmons (Miss), *German*.  
 R. G. Bressler, *Rural Sociology*.  
 G. W. Davis, *Training of Vocational Teachers*.

**Associate Professors :**

J. H. Frizzell, *English*.  
 W. S. Dye, *English*.  
 A. L. Kocher, *Architectural Extension*.  
 W. D. Crockett, *Latin*.  
 O. F. Boucke, *Economics and Economic History*.  
 C. E. Marquardt, *German*.  
 A. E. Martin, *American History*.  
 H. Bezdek, *Physical Education*.  
 A. Rhoton, *Education*.

**Assistant Professors :**

L. M. Burrage, *French*.  
 F. W. Pierce, *German*.  
 G. K. Scott (Miss), *Industrial and Fine Arts*.  
 H. L. Ridenour, *English*.  
 W. E. Lewis, *Physical Education*.  
 J. W. Crowell, *Romance Languages*.  
 J. Tanger, *Political Science*.

**Assistant Professors—Continued:**

- H. G. Parkinson, *Rural Education*.  
 F. C. Disque, *Architectural Drawing*.  
 J. O. Knauss, *History*.  
 E. J. Hall, *English*.  
 C. W. Hasek, *German and Russian*.  
 E. M. Bowman, *Romance Languages*.

**SCHOOL OF NATURAL SCIENCE.**

**Professors:**

- G. G. Pond, *Chemistry*.  
 W. R. Ham, *Physics*.  
 F. D. Kern, *Botany*.  
 J. H. Tudor, *Mathematics*.  
 H. F. Stecker, *Mathematics*.  
 E. H. Dusham, *Entomology*.

**Associate Professors:**

- M. M. Garver, *Physics*.  
 E. B. Smith, *Mathematics*.  
 J. B. Hill, *Botany*.  
 J. E. Rowe, *Mathematics*.  
 D. C. Duncan, *Physics*.

**Assistant Professors:**

- W. J. Keith, *Organic Chemistry*.  
 E. B. Meek (Miss), *Bacteriology*.  
 G. C. Chandlee, *Qualitative Analysis*.  
 C. G. Simpson, *Mathematics*.  
 R. S. Pritchard, *Qualitative Analysis*.  
 T. W. Mason, *Chemistry*.  
 J. E. Davis, *Mathematics*.  
 T. E. Gravatt, *Mathematics*.  
 L. R. Parks, *Physical Chemistry*.  
 S. R. Parsons, *Physics*.  
 L. O. Overholts, *Botany*.  
 C. W. Robinson, *Geology*.  
 C. A. Hunter, *Bacteriology*.  
 J. A. Swindler, *Physics*.  
 J. H. Olewine, *Chemistry*.  
 J. P. Kelly, *Botany*.  
 De W. T. Keach, *Chemistry*.  
 C. P. Sousley, *Mathematics*.  
 C. H. Hadley, *Economic Entomology*.  
 C. A. Bonine, *Geology*.  
 C. G. Watson, *Physics*.  
 E. R. Wightman, „

**SCHOOL OF AGRICULTURE.**

**Professors:**

- W. Frear, *Experimental Agricultural Chemistry*.  
 H. P. Armsby, *Animal Nutrition*.  
 F. D. Gardner, *Agronomy*.  
 T. I. Mairs, *Agricultural Education*.  
 C. W. Stoddart, *Chemical Agriculture*.  
 W. H. Tomhave, *Animal Husbandry*.  
 J. A. Ferguson, *Forestry*.  
 M. S. McDowell, *Agricultural Extension*.  
 A. A. Borland, *Dairy Husbandry*.  
 S. W. Fletcher, *Horticulture*.  
 F. Rasmussen, *Dairy Husbandry*.  
 N. Schmitz, *Agronomy Extension*.  
 E. K. Hibshman, *Farm Organization Extension*.

**Professors—Continued:**

- A. W. Cowell, *Landscape Gardening*.  
 E. L. Nixon, *Plant Pathology Extension*.  
 W. S. Taylor, *Agricultural Education*.  
 H. H. Havner, *Animal Husbandry Extension*.  
 F. P. Weaver, *Farm Organization Extension*.

**Associate Professors:**

- M. B. McDonald (Miss), *Chemical Agriculture*.  
 E. L. Worthen, *Agronomy*.  
 C. R. Orton, *Plant Pathology*.  
 C. F. Noll, *Experimental Agronomy*.  
 J. W. White „ „  
 C. E. Myers, *Plant Breeding*.  
 R. U. Blasingame, *Farm Machinery*.  
 J. A. Fries, *Animal Nutrition*.  
 E. L. Anthony, *Dairy Husbandry*.  
 E. L. Moffitt, *Farm Management Extension*.  
 F. T. Struck, *Agricultural Education*.  
 G. Wehrwein, *Rural Economics*.

**Assistant Professors:**

- W. H. Darst, *Agronomy*.  
 F. N. Fagan, *Pomology*.  
 W. R. Gorsham, *Agricultural Extension*.  
 G. R. Green, *Forestry*.  
 W. R. White, *Agricultural Education*.  
 J. F. Adams, *Plant Pathology*.  
 E. I. Wilde, *Floriculture*.  
 S. I. Bechdel, *Dairy Husbandry*.  
 C. R. Anderson, *Forestry*.  
 J. R. Bechtel, *Vegetable Gardening*.  
 G. S. Bulkley, *Dairy Husbandry Extension*.  
 D. E. Haley, *Chemical Agriculture*.  
 C. L. Goodling, *Farm Management*.  
 C. G. McBride, *Agricultural Extension*.  
 M. F. Grimes, *Animal Husbandry*.  
 D. S. Fox, *Agronomy*.  
 M. W. Lisse, *Chemical Agriculture*.  
 W. W. Braman (Miss), *Animal Nutrition*.  
 F. L. Bentley, *Animal Husbandry*.  
 H. C. Knandel, *Poultry Husbandry Extension*.  
 I. D. Wilson, *Animal Husbandry*.  
 L. S. Kleinschmidt, *Poultry Husbandry*.  
 P. E. Dougherty, *Animal Husbandry Extension*.

**SCHOOL OF ENGINEERING.**

**Professors:**

- E. D. Walker, *Hydraulic and Sanitary Engineering*.  
 H. Diemer, *Industrial Engineering*.  
 E. S. Moore, *Geology and Mineralogy*.  
 P. B. Breneman, *Mechanics and Materials of Construction*.  
 C. L. Kinsloe, *Electrical Engineering*.

**Professors—Continued :**

- E. A. Fessenden, *Mechanical Engineering*.  
A. J. Wood, *Railway Mechanical Engineering*.

**Associate Professors :**

- H. B. Shattuck, *Railroad Engineering*.  
C. E. Govier, *Telephone Engineering*.  
E. L. Waterman, *Hydraulic and Sanitary Engineering*.  
J. H. Yoder, *Engineering Extension*.  
R. A. Caughey, *Civil Engineering*.

**Assistant Professors :**

- R. O'Donnell, *Civil Engineering*.  
D. L. Markle, *Electrical Engineering*.  
G. H. Resides, *Practical Mechanics*.  
F. M. Torrence, *Mechanical Engineering*.  
W. H. Martin, *Mechanical Engineering*.  
E. M. Broderick, *Practical Mechanics*.  
C. L. Harris, *Architectural Engineering*.  
N. C. Miller, *Engineering Extension*.  
T. S. Patterson, *Mechanics and Materials of Construction*.  
R. E. Minshall, *Civil Engineering*.  
H. M. Armstrong, *Electro-Chemical Engineering*.  
H. K. Kistler, *Civil Engineering*.  
L. W. Whitehead, *Civil Engineering*.  
P. A. Cushman, *Mechanical Engineering*.

**Post-Graduate Courses.**—For degree of M.A., M.S., C.E., E.E., M.E., E.M.

**Library.**—College Library, 71,271 books, 75,000 pamphlets. *Librarian* : E. W. Runkle, Ph.D.

**Institute of Animal Nutrition** (the only one in the United States, supported by the National Government). *Director* : H. P. Armsby, Ph.D., LL.D.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—R. L. Watts.

**STATE COLLEGE (New Mexico).**
**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—Fabian Garcia.

**STELLENBOSCH (South Africa).**

**UNIVERSITY OF STELLENBOSCH, C.P., South Africa.**

*Terms* : Two semesters per annum.

*Students* : Undergraduates, 532; Post-graduates, 61.

**OFFICIALS.**

*Chancellor.*—Rev. Prof. P. J. G. de Vos, Litt.D.

*Vice-Chancellor.*—Rev. Prof. A. Moores, Litt.D.

*Principal.*—G. G. Gillie, M.A., Ph.D.

*Registrar.*—D. J. Ackermann, B.A.

**Degrees conferred.**—B.A., M.A., B.Sc., B.Sc. (Agric.), M.Sc., M.Sc. (Agric.), Litt.D., D.Phil., D.Sc.

**SCHOOL OF MINING.**
**Professors :**

- S. B. Smith, *Mining Law*.  
W. R. Chedsey, *Mining*.

**Associate Professor :**

- H. B. Northrup, *Metallurgy*.

**Assistant Professor :**

- B. Dudley, *Metallurgy*.

**DEPARTMENT OF MILITARY SCIENCE.**
**Professor :**

- M. D. Welfy, *Military Science and Tactics*.

**DEPARTMENT OF HOME ECONOMICS.**
**Professor :**

- E. P. Chace (Miss), *Home Economics*.

**Associate Professor :**

- P. MacDonald (Miss), *Home Economics Extension*.

**Assistant Professor :**

- L. B. Moss (Miss), *Domestic Science*.  
113 Instructors, 48 Assistants, 3 Associates.



PROFESSORS.

**FACULTY OF LITERATURE AND PHILOSOPHY.**

**Professors :**

- P. Van Braam, *Latin*.  
 J. Basson, *Classics and Classical Philology*.  
 C. S. Edgar, *Greek*.  
 W. A. Joubert, *Dutch*.  
 J. J. Smith, *French and German*.  
 H. C. Noteutt, *English*.  
 W. Blommaert, *History*.  
 S. F. N. Gie, *S. A. History*.  
 N. J. Brummer, *Ethics and Politics*.  
 R. W. Wilcocks, *Logic and Psychology*.  
 7 Lecturers.

**FACULTY OF SCIENCE.**

**Professors :**

- A. B. Bartmann, *Mathematics*.  
 A. H. Mackenzie

**Library.**—University Library. *Librarian* : Miss Chapman.

**Professors—Continued :**

- J. T. Morrison, *Applied Mathematics*.  
 W. E. Malherbe, *Physics*.  
 C. D. Merwe, *Inorganic Chemistry*.  
 B. v. d. Riet, *Organic Chemistry*.  
 D. F. du Toit, *Physical Chemistry*.  
 E. J. Goddard, *Zoology*.  
 8 Lecturers.

**FACULTY OF AGRICULTURE.**

**Professors :**

- A. I. Perold, *Viticulture and Oenology*.  
 O. S. H. Reinecke, *Pomology*.  
 J. H. Neethling, *Agricultural Botany*.  
 3 Lecturers.

**FACULTY OF EDUCATION.**

**Professors :**

- G. G. Cillie, *Education*.  
 D. A. A. Pauw, *Method*.  
 4 Lecturers.

**AFFILIATED INSTITUTIONS.**

Victoria College: founded 1881; raised to University, 1918.

**STILLWATER (Oklahoma).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—H. G. Knight.

**STORRS STATION (Connecticut).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. H. Jenkins.

**SUTTON BONINGTON.**

**MIDLAND AGRICULTURAL AND DAIRY COLLEGE**, Agricultural Department, Sutton Bonington. Dairy Department, Kingston-on-Soar. (1895.)

*Terms* : Three in Agriculture; two in Dairying. Also short courses.  
*Students* : 80.

*Principal.*—W. Goodwin, M.Sc., Ph.D.

**LECTURERS.**

- H. M. McCreath, *Agriculture*.  
 J. Duncan, *Agriculture*.  
 C. B. Donald (Miss), *Agriculture*.  
 J. G. W. Stafford, *Dairying*.  
 E. J. Hugill (Miss) „  
 W. Goodwin, *Agricultural and Dairy Chemistry*.  
 H. T. Cranfield, *Agricultural and Dairy Chemistry*.  
 F. Knowles, *Soil Analyst*.  
 E. Holden, *Zoology*.  
 H. S. Holden, *Botany*.  
 M. G. D. Taylor (Miss), *Dairy Bac-*

- teriology*.  
 A. Levie, *Veterinary Science and Pathogenic Bacteriology*.  
 J. S. King, *Book-keeping and Economics*.  
 D. W. Lansdown, *Engineering*.  
 I. D. Strachan (Miss), *Poultry Management*.  
 D. E. Wilkinson (Miss), *Assistant in Poultry Department*.  
 J. H. Beale, *Horticulture*.  
 H. P. Hutchinson, *Adviser in Botany*.  
 Rev. A. Thornley, *Nature Study*.  
 G. Hayes, *Apiculture*.  
 H. Nicholson (Miss), *Domestic Economy*.

## SYDNEY (New South Wales).

## THE UNIVERSITY OF SYDNEY. (1850.)

Terms : Three a year.

## OFFICIALS.

*Chancellor.*—The Hon. Sir D. Portus Cullen, K.C.M.G., M.A., LL.D., Chief Justice of N.S.W.

*Vice-Chancellor.*—The Hon. Mr. Justice D. G. Ferguson, B.A.

*Registrar.*—H. E. Barff, M.A.

*Librarian.*—J. Le Gay Brereton, M.A.

## Degrees conferred :

## Degrees.

## Hoods.

B.A. - - -	Similar to B.A. Cambridge.
M.A. - - -	Black silk lined with blue silk.
B.Sc. - - -	Black stuff edged with amber silk.
D.Sc. - - -	Scarlet cloth lined with amber silk.
B.E. - - -	Black stuff lined with light maroon silk.
M.E. - - -	Black silk lined with light maroon silk.
LL.B. - - -	Black silk edged with blue silk.
LL.D. - - -	Scarlet cloth lined with blue silk.
M.B. - - -	Black silk edged with purple silk.
M.D. - - -	Scarlet cloth lined with purple silk.
M.S. - - -	Scarlet cloth lined with French grey silk.
B.Sc. (Agric.)	Black stuff edged with green silk.
B.D.S. - - -	Black stuff edged with purple and crimson silk.
B.V.Sc. - - -	Black silk edged with amber and purple silk.
B.Sc. - - -	Black stuff edged with copper-coloured silk.
M.Ec. - - -	Black silk lined with copper-coloured silk.

## PROFESSORS.

## FACULTY OF ARTS.

## Professors :

- T. Butler, *Latin*.  
 H. S. Carslaw, *Mathematics, Pure and Applied*.  
 M. W. MacCallum, *Modern Literature*.  
 A. Anderson, *Logic and Mental Philosophy*.  
 W. J. Woodhouse, *Greek*.  
 G. A. Wood, *History*.  
 A. Mackie, *Education*.  
 G. Phillips, *Experimental Education*.  
 R. F. Irvine, *Economics*.  
 J. Murdoch, *Oriental Studies*.

## Assistant Professors :

- F. A. Todd, *Latin*.  
 E. R. Holme, *English*.  
 G. G. Nicholson, *French and German*.  
 19 Lecturers and 5 Assistant Lecturers.

## FACULTY OF LAW.

## Professor :

Hon. J. B. Peden, *Law*.

## Readers :

- C. G. Davidson, *Conveyancing*.  
 P. R. Watts, *Common Law Practice and Pleading*.  
 D. S. Edwards.  
 5 Lecturers.

## FACULTY OF MEDICINE.

## Professors :

- Sir T. A. Stuart, *Physiology*.  
 J. T. Wilson, *Anatomy*.  
 D. A. Welsh, *Pathology*.  
 H. G. Chapman, *Pharmacology*.  
 H. J. Marks, *Diseases of Ear, Nose, and Throat*.  
 E. H. Molesworth, *Diseases of the Skin*.  
 J. Foreman, *Gynecology*.  
 H. R. G. Poate, *Military Surgery*.  
 H. S. Stacey, *Military Administration*.  
 W. G. Armstrong, *Public Health*.  
 R. F. Reading, *Dentistry*. [strators.  
 28 Lecturers, 7 Tutors, 19 Demon-

## FACULTY OF SCIENCE.

## Professors :

- J. A. Pollock, *Physics*.  
 C. E. Fawsitt, *Chemistry*.  
 S. J. Johnston, *Zoology*.  
 T. W. E. David, *Geology and Physical Geography*.  
 A. A. Lawson, *Botany*.  
 J. Read, *Chemistry, Organic, Pure and Applied*.  
 W. H. Warren, *Engineering*.  
 P. N. Russell, *Mechanical Engineering*.

**Professors—Continued :**

L. Wilkinson, *Architecture*.  
W. E. Cooke, *Astronomy*.  
J. D. Stewart, *Veterinary Science*.  
R. D. Watt, *Agriculture*.

**Assistant Professors :**

O. U. Vonwiller, *Physics*.  
J. A. Schofield, *Chemistry*.  
P. N. Russell, *Electrical Engineering*.  
40 Lecturers, 22 Demonstrators.

**Museums.—**

Museum of Normal and Morbid Anatomy. *Curator* : Prof. D. A. Welsh, M.A., B.Sc., M.D., F.R.C.P.

Macleay Museum of Natural History. *Curator* : J. Shewan.

Nicholson Museum of Egyptian, Greek, Roman and Medieval Antiquities.  
*Curator* : Prof. W. J. Woodhouse, M.A.

**THE ROYAL SOCIETY FOR NEW SOUTH WALES, 5, Elizabeth Street North, Sydney, N.S.W.**

*Patron*.—His Excellency the Rt. Hon. Sir Ronald Craufurd Munro-Ferguson, P.C., G.C.M.G.

*Vice-Patron*.—His Excellency Sir Walter Edward Davidson, K.C.M.G.

*President*.—Prof. O. E. Fawsitt, D.Sc., Ph.D.

*Vice-Presidents*.—

R. Greig Smith, D.Sc.

J. B. Cleland, M.D., Ch.M.

T. H. Houghton, M.Inst.C.E.

W. S. Dun.

*Hon. Treasurer*.—Prof. H. G. Chapman, M.D.

*Hon. Secretaries*.—

R. H. Cambage, F.L.S.

J. A. Pollock, D.Sc., F.R.S.

**AUSTRALASIAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,  
Royal Society's House, 5, Elizabeth Street, Sydney.**

This Society (which includes New Zealand) is much on the lines of the British Association, and was founded by Professor Liversidge, LL.D., F.R.S., and held its first meeting in Sydney in the Australian Centenary Year (1888).

Besides the usual grants to Committees the Association supported the Mawson Antarctic Expedition to the extent of a thousand pounds.

The Association works by sections, of which there are twelve.

**OFFICIALS.**

*Permanent Hon. Secretary*.—J. H. Maiden, I.S.O., F.R.S.

*President*.—Prof. T. W. Edgeworth David, C.M.G., D.S.O., D.Sc., F.R.S., Sydney.

*President-elect*.—Prof. Sir W. Baldwin Spencer, K.C.M.G., F.R.S.

*Vice-Presidents*.—

Prof. A. Liversidge, LL.D., F.R.S.

Prof. Orme Masson, D.Sc., F.R.S.

Prof. W. H. Bragg, M.A., F.R.S.

G. H. Knibbs, C.M.G., F.R.A.S.

Richard Teece, F.I.A., F.F.A., F.S.S.

*Hon. Treasurer*.—David Carment, F.I.A., F.F.A.

**THE LOCAL SECRETARIES FOR THE VARIOUS STATES.**

J. H. Maiden, F.R.S., New South Wales.

A. D. Rivett, D.Sc. (Acting), Victoria.

Prof. W. Howchin, F.G.S., South Australia.

A. Gibb Maitland, F.G.S., Western Australia.

J. Shirley, D.Sc., Queensland.

Prof. T. Thomson Flynn, B.Sc., Tasmania.

Prof. C. Coleridge Farr, D.Sc., New Zealand.

**THE TECHNOLOGICAL MUSEUM, Harris Street, Sydney, N.S.W., Australia.**

The Sydney Technological Museum is a Government Institution to which the public can apply at any time concerning the Mineral, Vegetable, or Animal Resources of the State or Commonwealth.

## OFFICIALS.

*Curator and Economic Botanist.*—R. T. Baker, F.L.S., etc.

*Assistant Curator and Economic Chemist.*—H. G. Smith, F.C.S.

*Economic Zoologist.*—T. C. Roughly.

The scope of the work is principally:

1. To assist in every way the development of the natural resources of the State and Commonwealth by bringing together for investigation, instruction, etc., collections of our raw products, such as wool, timber, minerals, essential oils, etc.
2. To scientifically investigate these products and so ascertain the various economic purposes to which they can be put or for which they are suitable.
3. To publish these results for the benefit of the commercial world.
4. To collect and exhibit the various economic products of the world, and to gather, as far as possible, all information relating to them.
5. Lectures on the economic products are given in our Technical Colleges, Trade Schools, and various other Institutions.
6. Since its inception over 200 original papers and publications have been issued from this Institution, all bearing on the commercial development of the raw products of the State and Commonwealth.

**SYDNEY OBSERVATORY**, New South Wales, Australia. (1858.)

Astronomical and Seismological.

*Government Astronomer and Professor of Astronomy.*—W. E. Cooke.

**Principal Instruments.**—Six-inch Transit Circle, 13-inch Astrograph, 11½-inch Equatorial, Milne Seismograph.

**THE BOTANIC GARDENS**, Sydney, N.S.W. (1816.)

*Director and Government Botanist.*—J. H. Maiden, F.L.S.

The Gardens include the earliest land cultivated in Australia, on the arrival of the first fleet in 1788.

**TAIPING (Federated Malay States).**

**PERAK MUSEUM**, Taiping, Federated Malay States.

*Officer in Charge.*—I. H. N. Evans, M.A.

This Museum, with the Selangor Museum at Kuala Lumpur, is under the Director of Museums, Federated Malay States.

The Perak Museum, besides ethnographical collections, contains a good series of specimens illustrative of the minerals of the Malay States, especially tin and gold, and a representative collection for purposes of reference of minerals from other countries; zoological exhibits, chiefly mammals and birds; and examples of commercially useful agricultural and other products. The most noteworthy collections, however, as indicated above, are those of ethnographical objects.

**Publications.**—The Journal of the F.M.S. Museum.

**TEDDINGTON (Middlesex).**

**THE NATIONAL PHYSICAL LABORATORY**, Teddington, Middlesex.

The National Physical Laboratory was founded in the year 1901 at a public institution for standardising and verifying instruments, for testing materials, and for the determination of physical constants.

Prior to 1918 the property of the Laboratory was vested in the President and the Council of the Royal Society, and the Laboratory was controlled by a General Board and an Executive Committee, appointed by the President and Council of the Royal Society, and comprising representatives of the Society and of the great technical institutions. As from April 1, 1918, the responsibility for the maintenance of the National Physical Laboratory was undertaken by the Department of Scientific and Industrial Research, and the work of the Laboratory is now carried on under "Provisions for the Future Control of the National Physical Laboratory" agreed upon between the Department and the President and Council of the Royal Society.

The Laboratory comprises eight main sections: (1) Physics, (2) Electricity,



(3) Metrology, (4) Engineering, (5) Aerodynamics, (6) Metallurgy and Metallurgical Chemistry, (7) The William Froude National Tank, (8) Secretarial.

*Director*.—Professor J. E. Petavel, D.Sc., F.R.S.

See also **Department of Scientific and Industrial Research**, p. 183.

## TERRE HAUTE (Indiana).

**ROSE POLYTECHNIC INSTITUTE**, Terre Haute, Indiana. (1874.)

*Terms* : Session September to June. *Students* : Limited to 200.

### OFFICIALS.

*Acting President*.—John White, Ph.D.

*Vice-President*.—(Vacant.)

*Secretary*.—J. B. Peddle, M.E.

### Degrees conferred.—

Bachelor of Science, in Mechanical, Electrical, Civil, Architectural, and Chemical Engineering.

Master of Science Degree granted for one year of satisfactory resident post-graduate study, or two years in absentia under direction of Institute Faculty.

Formal graduate courses are **not** offered in general.

Degree of Engineer in different branches named above conferred on professional record.

### PROFESSORS.

#### Professors :

J. White, *Chemistry*.

F. C. Wagner, *Mechanical and Electrical Engineering*.

J. A. Wickersham, *Languages*.

A. S. Hathaway, *Mathematics*.

J. B. Peddle, *Machine Design*.

E. S. Johannott, *Physics*.

R. L. McCormick, *Mechanics and Structural Engineering*.

H. A. Thomas, *Hydraulics*.

C. Wischmeyer, *Shop Management*.

W. D. Weidlein, *Military Science and Tactics*.

#### Associate Professors :

C. C. Knipmeyer, *Electrical Engineering*.

A. A. Faurot, *Languages*.

H. A. Thomas, *Civil Engineering*.

C. Wischmeyer, *Machine Design*.

A. T. Child, *Chemistry*.

#### Assistant Professors :

O. L. Stock, *Drawing and Architectural Design*.

R. R. Sellers, *Mathematics*.

5 Instructors, and a Director of Athletics.

**Post-Graduate Courses**.—Not formally offered.

**Library**.—16,000 volumes, 3,500 pamphlets. *Librarian* : A. A. Faurot. *Assistant Librarian* : Mrs. E. McCullough.

## TORONTO (Canada).

**UNIVERSITY OF TORONTO**, Canada. (1827.)

*Terms* : Two per year.

*Students* (1918-19) : 3,356.

*Budget* (1918-19) : \$1,200,584.

### OFFICIALS.

*Chancellor*.—The Hon. Sir W. R. Meredith, LL.D.

*President*.—Sir R. A. Falconer, K.C.M.G., D.Litt., M.A., LL.D.

*Registrar*.—J. Brebner, B.A.

*Bursar*.—F. A. Moure.

**Degrees conferred**.—B.A., M.B., B.Sc. (Med.), B.A.Sc., B.Pæd., B.Sc.F., Mus. Bac., LL.B., D.D.S., Phm.B., B.V.Sc., B.S.A., LL.D. (Honorary), M.A., M.A.Sc., Ph.D., M.D., C.E., M.E., Chem.E., D.Pæd., F.E., Mus.Doc. LL.M., D.V.S.

### PROFESSORS.

#### FACULTY OF ARTS.

Members of the Staff of the University,  
University College, Victoria College,

Trinity College, and St. Michael's College  
are indicated by (U), (C), (V), (T), and  
(M), respectively.

**Professors :**

W. J. Alexander (C), *English*.  
 A. Baker (U), *Mathematics*.  
 A. J. Bell (V), *Comparative Philology*.  
 B. A. Bensley (U), *Zoology*.  
 G. S. Brett (U), *Philosophy*; (T) *Ethics*.  
 M. A. Buchanan (U), *Italian and Spanish*.  
 J. H. Cameron (C), *French*.  
 Rev. H. Carr (M), *Greek and the History of Philosophy*.  
 A. Carruthers (C), *Greek Literature and Archeology*.  
 C. A. Chant (U), *Astrophysics*.  
 A. P. Coleman (U), *Geology*.  
 Rev. F. H. Cosgrave (T), *Hebrew*.  
 J. A. Craig (C), *Oriental Languages*.  
 C. T. Currelly (U), *History of Industrial Art*.  
 Rev. D. Cushing (M), *Cosmology*.  
 A. T. De Lucy (U), *Mathematics*.  
 N. W. De Witt (V), *Latin Literature*.  
 M. De Wulf (M), *Medieval Philosophy*.  
 Rev. H. T. F. Duckworth (T), *Ancient History*.  
 O. P. Edgar (V), *English*.  
 J. H. Faull (U), *Botany*.  
 J. O. Fields (U), *Mathematics*.  
 H. E. Ford (V), *French*.  
 S. H. Hooke (V), *Oriental Languages and Literature*.  
 L. E. Horning (V), *Teutonic Philology*.  
 J. G. Hume (U), *History of Philosophy*.  
 M. Hutton (C), *Greek*.  
 W. P. McC. Kennedy (M), *English*.  
 D. R. Keys (C), *Anglo-Saxon*.  
 W. A. Kirkwood (T), *Latin*.  
 R. E. L. Kittredge (T), *French*.  
 W. B. Lane (V), *Ethics*.  
 A. E. Lang (V), *German Language and Literature*.  
 W. R. Lang (U), *Chemistry*.  
 A. L. Langford (V), *Greek Language and Literature*.  
 W. J. Loudon (U), *Mechanics*.  
 Rev. R. McBrady (M), *Latin and French*.  
 Rev. E. J. McCorkell (M), *Social Ethics*.  
 M. A. Mackenzie (U), *Mathematics*.  
 Rev. J. F. McLaughlin (V), *Oriental Languages and Literature*.  
 J. C. McLennan (U), *Physics*.  
 J. J. R. Macleod (U), *Physiology*.  
 J. P. McMurrich (U), *Chemistry*.  
 J. Mavor (U), *Political Economy*.  
 Rev. F. D. Meader (M), *Ethics*.  
 W. L. Miller (U), *Chemistry*.  
 W. S. Milner (C), *Greek and Roman History*.  
 G. H. Needler (C), *German*.  
 Rev. M. J. Oliver (M), *Psychology*.  
 W. A. Parks (U), *Paleontology*.  
 E. T. Owen (T), *Greek*.

**Professors—Continued :**

Rev. F. G. Powell (M), *Philosophy*.  
 Rev. J. J. Purcell (M), *Metaphysics*.  
 J. C. Robertson (V), *Greek Language and Philosophy*.  
 T. B. Robertson (U), *Biochemistry*.  
 J. E. Shaw (U), *Italian and Spanish*.  
 H. C. Simpson (T), *English*.  
 W. R. Taylor (C), *Oriental Languages*.  
 F. Tracy (C), *Ethics*.  
 T. L. Walker (U), *Mineralogy*.  
 M. W. Wallace (C), *English*.  
 J. S. Will (C), *French*.  
 G. McK. Wrong (U), *History and Ethnology*.  
 A. H. Young (T), *German*.

**Associate Professors :**

A. H. Abbott (U), *Philosophy*.  
 F. B. Allan (U), *Chemistry*.  
 V. de Beaumont (V), *French Language and Literature*.  
 E. F. Burton (U), *Physics*.  
 C. E. Auger (V), *English*.  
 S. E. de Champ (C), *French*.  
 B. Fairley (C), *German*.  
 O. D. Howe (U), *Botany*.  
 A. G. Huntsman (U), *Marine Biology*.  
 F. B. Kenrick (U), *Chemistry*.  
 Rev. E. J. McCorkell (M), *English*.  
 R. M. MacIver (U), *Political Economy*.  
 Rev. J. T. Muckle (M), *Greek*.  
 Rev. M. J. Oliver (M), *German*.  
 W. H. Piersol (U), *Histology*.  
 Rev. F. G. Powell (M), *Latin*.  
 C. B. Sissons (V), *Ancient History*.  
 W. G. Smith (U), *Psychology*.  
 R. B. Thomson (U), *Botany*.  
 E. M. Walker (U), *Biology*.

**Assistant Professors :**

S. Beatty (U), *Mathematics*.  
 W. H. Clawson (C), *English*.  
 S. A. Cudmore (U), *Political Economy*.  
 E. A. Dale (C), *Latin*.  
 L. Gilchrist (U), *Physics*.  
 F. A. Hartman (U), *Physiology*.  
 W. Jackman (U), *Political Economy*.  
 A. L. Parsons (U), *Mineralogy*.  
 T. R. Robinson (U), *Philosophy*.  
 L. J. Rogers (U), *Chemistry*.  
 J. Satterley (U), *Physics*.  
 G. M. Smith (U), *History*.  
 G. O. Smith (C), *Latin*.  
 P. Toews (C), *German*.  
 H. Wasteneys (U), *Biochemistry*.  
 J. H. White (U), *Botany*.  
 R. H. Williams (U), *History*.

**FACULTY OF MEDICINE.****Professors :**

J. A. Amyot, *Hygiene*.  
 N. H. Beemer, *Mental Diseases*.  
 G. H. Burnham, *Ophthalmology and Otology*.

**Professors—Continued :**

- I. H. Cameron, *Surgery and Clinical Surgery.*  
 C. K. Clarke, *Psychiatry.*  
 W. H. Ellis, *Toxicology.*  
 S. M. MacCallum, *Ophthalmology.*  
 J. J. Mackenzie, *Pathology and Bacteriology.*  
 A. McPhedran, *Medicine and Clinical Medicine.*  
 N. A. Powell, *Medical Jurisprudence.*  
 A. Primrose, *Clinical Surgery.*  
 R. D. Rudolf, *Therapeutics.*  
 B. P. Watson, *Obstetrics and Gynecology.*  
 D. J. G. Wishart, *Oto-Laryngology.*

**Associate Professors :**

- H. B. Anderson, *Clinical Medicine.*  
 A. M. Baines, *Clinical Medicine and Pediatrics.*  
 G. A. Bingham, *Clinical Surgery and Clinical Anatomy.*  
 H. A. Bruce, *Clinical Surgery.*  
 G. Chambers, *Clinical Medicine.*  
 R. J. Dwyer       "       "  
 J. Ferguson       "       "  
 J. G. Fitzgerald, *Hygiene.*  
 J. T. Fotheringham, *Medicine and Clinical Medicine.*  
 W. Goldie, *Clinical Medicine.*  
 S. M. Hay, *Surgery.*  
 A. A. Macdonald, *Obstetrics and Gynecology.*  
 H. T. Machell, *Obstetrics and Pediatrics.*  
 F. W. Marlow, *Gynecology.*  
 K. C. McIlwraith, *Obstetrics.*  
 P. W. McKeown, *Clinical Surgery.*  
 A. McPhedran, *Medicine and Clinical Medicine.*  
 W. H. Piersol, *Histology and Embryology.*  
 C. L. Starr, *Clinical Surgery.*  
 F. N. G. Starr, *Clinical Surgery.*  
 W. B. Thistles, *Clinical Medicine.*

**Assistant Professor :**

- J. C. Watt, *Anatomy.*  
 16 Associates, 6 Lecturers, and 133 other appointments.

**FACULTY OF APPLIED SCIENCE AND ENGINEERING.**

**Professors :**

- R. W. Angus, *Mechanical Engineering.*  
 J. W. Bain, *Chemical Engineering.*  
 W. H. Ellis, *Applied Chemistry.*  
 G. A. Guess, *Metallurgy.*  
 H. E. T. Haultain, *Mining Engineering.*  
 J. McGowan, *Applied Mechanics.*

**Post-Graduate Courses.**—Leading to M.A., Ph.D., M.D., also in Engineering, Forestry, Music, Law, Pedagogy, Veterinary Science.

**Library.**—University Library (1917-18) contains 151,799 bound volumes and

**Professors—Continued :**

- T. R. Rosebrugh, *Electrical Engineering.*  
 L. B. Stewart, *Surveying and Geodesy.*  
 C. H. C. Wright, *Architecture.*

**Associate Professors :**

- G. R. Anderson, *Physics.*  
 M. C. Boswell, *Organic Chemistry.*  
 J. R. Cockburn, *Descriptive Geometry.*  
 P. Gillespie, *Applied Mechanics.*  
 H. W. Price, *Electrical Engineering.*

**Assistant Professors :**

- E. G. R. Ardagh, *Applied Chemistry.*  
 L. M. Arkley, *Mechanical Engineering.*  
 A. T. Laing, *Applied Mechanics.*  
 T. R. Loudon, *Ferro-Metallurgy.*  
 A. W. McConnell, *Architecture.*  
 W. M. Treadgold, *Surveying.*  
 C. R. Young, *Structural Engineering.*  
 2 Lecturers and 31 other appointments.

**FACULTY OF EDUCATION.**

**Professor :**

- H. J. Crawford, *Education.*

**Associate Professor :**

- P. Sandiford, *Education.*

**Assistant Professors :**

- F. E. Coombs, *Methods in Elementary Subjects.*  
 G. A. Cornish, *Methods in Science.*  
 J. T. Crawford, *Methods in Mathematics.*  
 W. C. Ferguson, *Methods in French and German.*  
 J. M. Jones, *Methods in English.*  
 19 Instructors and 3 Lecturers.

**FACULTY OF FORESTRY.**

**Professor :**

- B. E. Fernow, *Forestry.*

**Associate Professor :**

- C. D. Howe, *Forestry.*

**Assistant Professors :**

- W. N. Millar, *Forestry.*  
 J. H. White, *Forestry.*

**FACULTY OF MUSIC.**

**Professor :**

- A. S. Vogt, *Dean.*  
 4 Lecturers.

**DEPARTMENT OF HOUSEHOLD SCIENCE.**

**Associate Professors :**

- C. C. Benson (Miss), *Physiological Chemistry.*  
 A. L. Laird (Miss), *Household Science.*  
 3 Lecturers, 8 other appointments.

50,926 pamphlets. Victoria, Trinity, and St. Michael's Colleges also have local college libraries. *Librarian* : H. H. Langton, M.A.

**Museum.**—Royal Ontario Museum.

### FEDERATED INSTITUTIONS.

Victoria University (Toronto); Trinity University (Toronto); St. Michael's College (Toronto); Kiwn College, Wycliffe College.

### AFFILIATED INSTITUTIONS.

Ontario Agricultural College, Royal College of Dental Surgeons, Ontario Veterinary College, Ontario College of Pharmacy, Albert College, Columbian Methodist College, Alma College, St. Hilda's College (Western Canada).

**VICTORIA UNIVERSITY**, Queen's Park, Toronto. (1836.)

Victoria University for 56 years was located in Cobourg, Ont.—i.e., from 1836 to 1892—and carried on its work in the Faculties of Arts, Medicine, Law, and Theology, as an independent institution. In 1890 Victoria University entered into Federation with the University of Toronto, and in 1892 began work as an Arts College in that institution—the Theological Faculty remaining independent, and the Faculties of Medicine and Law were merged in the corresponding Faculties of the University of Toronto.

*Terms* : Two per year.

*Students* (1919-20) : 525.

*Budget* :

Assets (July 31, 1919)	..	..	..	\$1,934,749.86.
Expenditure (July 31, 1919)	..	..	..	143,263.26.

### OFFICIALS.

*Chancellor and President.*—Rev. R. P. Bowles, M.A., D.D., LL.D.

*Vice-Chancellor.*—Hon. Mr. Justice MacLaren, M.A., LL.D.

*Dean of the Faculty of Arts.*—Professor J. L. Robertson, M.A.

*Dean of the Faculty of Theology.*—Rev. Professor F. H. Wallace, M.A., D.D.

*Registrar.*—A. L. Langford, M.A.

*Bursar.*—Rev. W. C. B. Caswell, B.A.

**Degrees conferred.**—B.D. and D.D. (Honorary)—B.D., Black alpaca, lined with purple silk and trimmed with ermine; D.D., scarlet broadcloth, lined with purple silk.

### PROFESSORS.

#### FACULTY OF ARTS.

See **UNIVERSITY OF TORONTO.**

#### FACULTY OF THEOLOGY.

##### Professors :

Rev. F. H. Wallace, *New Testament Exegesis and Literature.*

Rev. J. F. McLaughlin, *Old Testament Exegesis and Literature.*

Rev. R. P. Bowles, *Systematic and Historical Theology.*

W. B. Lane, *Ethics and Didactics.*

W. H. Greaves, *Public Speaking.*

Rev. J. W. Macmillan, *Sociology.*

**Post-Graduate Courses.**—The B.D. Course is a post-graduate course, a degree in Arts being necessary in order to secure a B.D.

The Arts Faculty is a part of the University of Toronto Graduate Faculty, and does work in that Faculty.

**Library.**—The Birge-Carnegie. *Librarian* : A. E. Lang, M.A.

**Museum.**—All museum material is now loaned to the Royal Ontario Museum.

##### Associate Professors :

Rev. J. H. Michael, *New Testament Exegesis.*

Rev. A. J. Johnston, *Homiletics and Pastoral Theology and Church History.*

Rev. F. W. Langford, *Religious Pedagogy.*

Rev. W. A. Potter, *Old Testament Exegesis and Literature.*

W. T. Brown, *Ethics and Apologetics.*

4 Lecturers.

### AFFILIATED INSTITUTIONS.

Albert College, Belleville, Ont.

Ontario Ladies' College, Whitby, Ont.

Alma College, St. Thomas, Ont.

Columbia College, New Westminster, B.C.



**ST. MICHAEL'S COLLEGE, Toronto, Canada. (1852.)**

The work of the University of Toronto is divided into seven parts, called faculties—for example, the Faculty of Medicine. St. Michael's College is connected with one of these faculties—the Faculty of Arts. The work of this faculty is carried on through four colleges, of which St. Michael's College is one. All four are on an equal standing except financially. University College is non-denominational, and is supported by University funds. The other three represent the interests of the Methodists, Catholics, and Anglicans respectively. Common affairs, such as examinations, are under common control; college matters, such as discipline, are regulated by individual colleges. The Colleges do not confer degrees; there is one degree for all. A student is said to be attending the University of Toronto, registered in the Faculty of Arts, and enrolled in St. Michael's College.

*Terms* : Two per year.

*Students* (Undergraduates): 187.

**OFFICIALS.**

*Superior*.—Very Rev. H. Carr, C.S.B.

*Assistant Superior*.—Rev. F. G. Powell, C.S.B.

*Registrar*.—Rev. F. D. Meader, C.S.B.

**PROFESSORS.**

**Professors :**

Very Rev. H. Carr, *Greek, and History of Phil.*  
Rev. F. G. Powell, *Logic and Metaphysics.*  
Rev. F. D. Meader, *Ethics and Religious Knowledge.*  
Rev. D. Cushing, *Cosmology.*  
Rev. R. McBrady, *Latin and Greek.*  
Rev. J. E. Pageau, *French.*  
Rev. V. J. Murphy, *Latin.*  
Rev. M. J. Oliver, *Psychology.*

**Professors—Continued :**

Rev. W. H. Murray, *French.*  
Rev. E. J. McCorkell, *Social Ethics.*  
W. P. M. Kennedy, *English.*  
M. De Wulf, *Medieval Philosophy.*  
Sir Bertram C. A. Windle, *Anthropology.*

**Associate Professors :**

Rev. F. G. Powell, *Latin.*  
Rev. E. J. McCorkell, *English.*  
Rev. M. J. Oliver, *German.*  
Rev. H. S. Bellisle, *Logic.*  
10 Lecturers.

**AFFILIATED INSTITUTES.**

Women students receive instruction at St. Joseph's College, and Loretto Abbey College.

**ONTARIO VETERINARY COLLEGE, Toronto, Canada. (1862.)**

*Terms* : Two per year.

*Students* : 78.

**OFFICIAL.**

*President*.—R. A. Falconer, K.C.M.G., D.Litt., LL.D. (University of Toronto).

*Principal*.—C. D. McGilvray, M.V.S.

**Degrees conferred.**—By the University of Toronto.

**PROFESSORS.**

**Professors :**

E. A. A. Grange, *Veterinary Hygiene.*  
C. D. McGilvray, *Contagious Diseases, Special Therapeutics.*  
J. N. Pringle, *Sporadic Diseases and Dentistry.*  
R. D. McIntosh, *Obstetrics.*  
D. R. Caley, *Surgery, Surgical Therapeutics, Restraint.*  
J. A. Campbell, *Canine and Feline Diseases.*  
H. D. Nelson, *Anatomy, Veterinary Physiology.*  
R. Gwatken, *Bacteriology, Milk Hygiene.*  
H. E. Batt, *Histology, Laboratory Pathology.*

**Professors—Continued :**

C. H. Weaver, *Meat Inspection.*  
D. K. Smith, *Pathology.* [ology.  
E. A. McCulloch, *Pathology, Parasitology.*  
L. T. Addison, *Zoology, Embryology, Histology.*  
P. L. Scott, *Pharmacy.*  
C. A. Temple, *Materia Medica.*  
R. K. Flemming, *Animal Husbandry.*  
J. J. R. MacLeod (T), *Physiology.*  
J. Hunter (T), *Biochemistry.*  
R. B. Thomson (T), *Botany.*  
E. F. Burton (T), *Physics.*  
F. B. Allan (T), *Chemistry.*  
D. W. Saunders, *Jurisprudence.*  
J. Brown, *Economics.*  
F. H. Kirkpatrick, *Public Speaking.*

**Post-Graduate Courses.**—No special post-graduate courses, as the final years' work is specially designed to meet the requirements of those desiring such a course, and to specialize in any branches they may select.

**Library.**—The Library is well supplied with books and journals relating to Medical and Veterinary Science.

**Museum.**—The Museum contains a large collection of Anatomical Specimens, both normal and pathological.

**WYCLIFFE COLLEGE, Toronto, Canada. (1877.)**

*Terms* : Two a year.

*Students* : 112.

The College is a Theological College only, the students take their Arts Course at the University of Toronto, and their Divinity at Wycliffe.

**OFFICIALS.**

*President.*—N. W. Hoyles Esq., B.A., K.C., LL.D.

*Principal.*—The Rev. Canon T. R. O'Meara, LL.D.

*Hon. Treasurer.*—F. C. Jarvis.

**Degrees and Hoods.**—

*Diploma* : Hood of Oxford shape, made of black stuff lined with dark blue silk, with an edging on the outside one half-inch wide of dark blue silk, and with a narrow white silk braid one inch from the edge.

*Licentiate in Theology* : Hood of black stuff lined with blue silk, with a white cord near the edge, after the manner in use in the University of Toronto.

*Doctor of Divinity* : Hood of red stuff with red silk lining and edged with white silk cord. The shape shall be that in use in the University of Cambridge.

There are 6 Professors and 2 Lecturers.

**Post-Graduate Courses.**—B.D. and D.D. degrees in Divinity under the General Synod of the Church of England in Canada.

*Librarian* : Professor McIntyre, M.A., B.D.

**MCMMASTER UNIVERSITY, Toronto, Canada. (1887.)**

*Terms* : Two per year. *Students* : Normally about 250; 175 in war-time.

**OFFICIALS.**

*Chancellor.*—A. L. McCrimmon, M.A., LL.D.

*Registrar.*—E. J. Bengough, B.A.

**Degrees conferred :**

*Degrees.*

B.A. - -	White lining, white fur trimming.
B.Sc. - -	Blue lining, white fur trimming.
M.A. - -	Japanese red lining.
B.Th. - -	Lavender lining.
B.D. - -	Old gold lining.
LL.D. - -	Scarlet edge and lining.
D.D. - -	Purple lining.

*Hoods.*

**PROFESSORS.**

**Professors :**

- A. L. McCrimmon, *Political Economy, Education and Sociology.*
- J. H. Farmer, *New Testament and Patristic Greek.*
- W. S. W. McLay, *English.*
- P. S. Campbell, *Greek.*
- J. Ten Broeke, *Philosophy, Psychology, Logic and Ethics.*
- R. W. Smith, *Biology.*
- E. M. Keirstead, *Systematic Theology and Apologetics.*
- W. Findlay, *Mathematics.*

**Professors—Continued :**

- J. L. Gilmour, *History of Doctrine and Practical Theology.*
- G. H. Campbell, *Latin.*
- B. Franzen-Swedelius, *French and Spanish.*
- H. F. Dawes, *Physics.*
- W. S. Wallace, *History.*
- P. W. Mueller, *German.*
- W. O. Walker, *Chemistry.*
- J. G. Brown, *Church History and Missions.*
- N. H. McNairn, *Geology and Mineralogy.*

5 Lecturers.

**Post-Graduate Courses.**—M.A. and B.D.

*Librarian* : Miss E. A. McGregor, B.A.

#### AFFILIATED INSTITUTIONS.

Brandon College, Brandon, Man.; also Academic Departments, Moulton College for Girls, Toronto, and Woodstock College for Boys in Woodstock, Ont.

**THE ROYAL CANADIAN INSTITUTE**, 198, College Street, Toronto, Canada.  
(1849.)

The objects of the Institute are: To disseminate scientific knowledge, to encourage the study of the history of Canada and the investigation of its natural resources; to promote scientific research, and to further the application of science to industry. It maintains a library of scientific periodicals, and transactions of scientific societies from all parts of the world. It conducts a series of weekly lectures throughout the winter intended to keep the people in touch with the recent scientific advances, and to enlighten them on questions of public utility. It publishes Proceedings and Transactions.

#### OFFICIALS.

*President.*—Prof. J. C. Fields, Ph.D., F.R.S.

*First Vice-President.*—G. H. Locke, M.A.

*Second Vice-President.*—Prof. D. R. Keys, M.A.

*Treasurer.*—W. B. Tindall.

*Secretary.*—Prof. H. F. Dawes, Ph.D.

*Editor.*—Prof. J. H. Faull, Ph.D.

*Librarian.*—Prof. A. G. Huntsman, M.B.

*Curator.*—H. Jewell.

**THE ROYAL ASTRONOMICAL SOCIETY OF CANADA**, 198, College Street, Toronto.  
(1890.)

#### OFFICIALS.

*Honorary President.*—O. Klotz, LL.D., D.Sc., F.R.A.S., F.R.A.S.C.

*President.*—A. F. Miller.

*First Vice-President.*—J. R. Collins.

*Second Vice-President.*—W. Bruce, J.P.

*Secretary.*—W. E. W. Jackson, M.A.

*Treasurer.*—H. W. Barker.

*Recorder.*—A. F. Hunter, M.A.

*Librarian.*—Prof. C. A. Chant.

*Curator.*—R. S. Duncan.

Centres at Ottawa, Peterborough, Hamilton, Regina, Guelph, Victoria, Montreal, and Winnipeg.

Members, 414.

**Publications.**—Journal (monthly) and Observers' Handbook (annually).

**ONTARIO HISTORICAL SOCIETY**, Toronto, Ontario, Canada.

*Secretary.*—A. F. Hunter.

Membership, 400.

It is housed in the Normal School Building, Toronto, where it has a collection of 2,294 volumes and 4,203 pamphlets, besides other historical collections. It publishes an annual historical volume of "Papers and Records," seventeen numbers of which have been published, and also an annual report of its business affairs.

#### TORTUGAS (Florida).

**THE CARNEGIE INSTITUTION, DEPARTMENT OF MARINE BIOLOGY**,  
Loggerhead Key, Tortugas, Florida. (1903.)

*Director.*—Alfred G. Mayer, Princetown, N.Y.

Researches upon the physiology, ecology, and embryology of tropical marine animals; also upon problems of oceanography, the geology and biology of marine

limestones, the growth rate of corals, the reactions of tropical sea-gulls, and the mutations of island mollusks.

Temporary branch laboratories are situated at Nassau and at Andros Island (Bahamas), in Jamaica, and upon Murray Island, Torres Straits.

**TRANSVAAL UNIVERSITY COLLEGE.** See **PRETORIA.**

### TRAVANCORE (South India).

**TRAINING COLLEGE FOR TEACHERS,** Thycaud, Trivandrum, Travancore, South India.

Affiliated to the University of Madras.

*Session :* July to April.

*Students :* 75.

*College Budget :* Rupees 45,200 per annum.

#### OFFICIALS.

*Principal.*—G. F. Clark, M.A., Ph.D.

*Acting Principal.*—K. Venkateswara Aiyer, B.A., L.T.

*Vice-Principal.*—S. G. Barker, B.Sc., Ph.D.

*Acting Vice-Principal.*—K. P. Ukkendan Unni Nair, M.A., L.T.

**Degrees conferred.**—As in University of Madras.

#### PROFESSORS.

K. P. U. U. Nair, *Nature Study.*

P. A. S. Aiyer, *Science.*

K. P. K. Nambiar, *Psychology.*

N. K. Iyengar, *Mathematics.*

K. C. Aiyer, *History.*

7 Lecturers.

**Post-Graduate Courses.**—The College prepares graduates for the L.T. Degree of the University of Madras.

#### Libraries.—

The College Library.

The Government Educational Bureau and Museum serves the whole State of Travancore.

**TRINITY COLLEGE.** See **DUBLIN.**

**TRINITY COLLEGE.** See **HARTFORD.**

### TROY (New York).

**RENSSELAER POLYTECHNIC INSTITUTE,** Troy, New York. (1824.)

*Terms :* Two per year.

*Students :* 980.

*Budget :* Income for year ending March 1st, 1918: \$256,500.

#### OFFICIAL.

*President and Director.*—Palmer Chamberlaine Ricketts, C.E., E.D., LL.D.

**Degrees conferred.**—C.E., M.E., E.E., Ch.E., B.S., M.C.E., M.M.E., M.E.E., M.Ch.E., M.S., Sc.D., Ph.D., D.Eng.

*Hoods.*—Cherry and white, the Institute colour with orange, the colour of the Engineer for the Engineering students, and yellow for the Bachelor of Science students.

#### PROFESSORS.

##### Professors :

P. C. Ricketts, *Mechanics.*

W. P. Mason, *Chemistry.*

C. W. Crockett, *Mathematics and Astronomy.*

W. L. Robb, *Electrical Engineering and Physics.*

E. R. Cary, *Geodesy, Road Engineering, and Topographical Drawing.*

J. M. Clarke, *Geology.*

##### Professors—Continued :

A. de Pierpont, *French Language and Literature.*

T. R. Lawson, *Rational and Technical Mechanics.*

A. M. Greene, *Mechanical Engineering.*

E. Touceda, *Metallurgy.*

E. F. Chillman, *Descriptive Geometry, Stereotomy, and Drawing.*

E. D. N. Schulte, *Electrical Engineering.*



**Professors—Continued :**

- M. A. Hunter, *Electro-Chemistry*.  
 A. T. Lincoln, *Physical Chemistry*.  
 J. R. Du Preist, *Steam and Gas Engine Design*.  
 R. P. Baker, *English*.  
 W. C. Batchelor, *Physical Training and Hygiene*.  
 H. E. Popp, *Hydraulic Engineering*.  
 W. J. Williams, *Electrical Engineering and Physics*.  
 F. W. Schwartz, *Analytical Chemistry*.

**Assistant Professors :**

- J. McGiffert, *Mathematics*.  
 W. W. Rousseau, *Geodesy, Road Engineering, and Engineering Botany*.  
 L. W. Clark, *Rational and Technical Mechanics*.  
 G. S. Thompson, *Rational and Technical Mechanics*.  
 G. K. Palsgrove, *Mechanical Engineering*.  
 A. L. Eno, *English*. [turers.  
 32 Instructors, 5 Assistants, 5 Lec-

**Post-Graduate Courses.**—Railroad Engineering, Highway Engineering, Hydraulic Engineering, Sanitary Engineering, Structural Engineering, Steam and Gas Engineering, Electrical Engineering, Chemical Engineering, Machine Design, Chemistry, Pure and Applied Mathematics.

**Library.**—13,000 bound volumes and 13,738 pamphlets. (Wholly works in engineering and science.) *Librarian* : H. R. Peck. *Assistant Librarian* : N. E. Paletz.

**Museums.**—Geological, Mineralogical, Mechanical and Electrical Engineering, Chemical Engineering.

**Learned Societies.—**

- Rensselaer Society of Engineers, Rensselaer Technical Society.  
 Branch American Society of Civil Engineers.  
 Branch American Society of Mechanical Engineers.  
 Branch American Society of Electrical Engineers.

**TUCSON (Arizona).**

**THE CARNEGIE INSTITUTION DEPARTMENT OF BOTANICAL RESEARCH,**  
 Desert Laboratory, Tucson, Arizona. (1905.)

*Director.*—D. T. MacDougal.

*Investigatory Staff* of four members.

The chief researches of the department have been concerned with a group of connected problems in growth, respiration, photosynthesis, parasitism, water relations, and environic reactions of plants.

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—D. W. Working.

**TUSKAGEE (Alabama).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—G. W. Carver.

**UKIAH (California).**

**LATITUDE OBSERVATORY OF THE INTERNATIONAL GEODETIC ASSOCIATION.**

U.S. Coast and Geodetic Survey, Ukiah, California, U.S.A.

*Astronomer in Charge.*—F. J. Neubauer, Ph.D.

**UNIONTOWN (Alabama).**

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—J. M. Burgess.

**URBANA (Illinois).**

**UNIVERSITY OF ILLINOIS,** Urbana, Illinois. (1867.)

(With Medical, Dental, and Pharmaceutical Departments in Chicago.)

*Terms* : First Semester, September 22nd, 1919—February 5th, 1920.

Second semester, February 9th—June 10th, 1920.

Summer session, 8 weeks.

*Students* (1919-20): 7,157.

*Budget* (1919-20): \$3,967,848.

### OFFICIALS.

*President*.—E. J. James, Ph.D., LL.D.

*Acting President*.—D. Kinley, Ph.D., LL.D.

*Registrar*.—C. M. McConn, A.M.

*Secretary*.—H. E. Cunningham, A.B.

*Comptroller*.—L. Morey, A.B., B.Mus., C.P.A.

*Dean of the College of Liberal Arts and Sciences*.—K. C. Babcock, B.L., Ph.D., LL.D.

*Dean of the College of Education*.—C. E. Chadsey, Ph.D.

*Acting Dean of the College of Commerce and Business Administration*.—N. A. Westen, Ph.D.

*Dean of the College of Engineering*.—C. R. Richards, M.E., M.M.E.

*Dean of the College of Agriculture*.—E. Davenport, M.Agr., LL.D.

*Dean of the College of Law*.—H. W. Ballantine, A.B., LL.B.

*Acting Dean of the Graduate School*.—A. H. Daniels, Ph.D.

*Dean of the College of Medicine*.—A. C. Eycleshymer, Ph.D., M.D.

*Dean of the College of Dentistry*.—F. B. Moorehead, M.S., D.D.S., M.D.

*Dean of the School of Pharmacy*.—W. B. Day, Ph.G.

*Director of the Library School*.—P. L. Windsor, Ph.B.

*Director of the School of Music*.—J. L. Erb, F.A.G.O.

*Dean of Men*.—T. A. Clark, B.L.

*Dean of Women*.—Miss R. E. Campbell Mason, A.M.

**Degrees conferred**.—A.B., B.S., B.Mus., A.M., M.S., Ph.D., LL.B., J.D., B.L.S., M.Arch., A.E., C.E., E.E., E.M., M.E., M.D., D.D.S., Ph.G., Ph.C.

**Hoods**.—Lined with the official colours of the University (orange and blue), with binding or edging distinctive of the faculty to which the degree pertains, as follows: Arts and Letters, white; Philosophy, dark blue; Science, gold yellow; Law, purple; Medicine, green; Music, pink.

### PROFESSORS.

#### LIBERAL ARTS AND SCIENCES.

##### Professors :

S. A. Forbes, *Entomology*. [*Literature*.

H. J. Barton, *Latin Language and*

D. K. Dodge, *English Language and Literature*.

E. B. Greene, *History*.

T. A. Clark, *Rhetoric*.

A. H. Daniels, *Philosophy*.

E. J. Lake, *Art and Design*.

T. E. Oliver, *Romance Languages*.

J. W. Garner, *Political Science*.

E. J. Townsend, *Mathematics*.

W. A. Noyes, *Chemistry*.

G. A. Miller, *Mathematics*.

E. C. Hayes, *Sociology*.

J. Goebel, *German*.

B. H. Bode, *Philosophy*.

H. B. Ward, *Zoology*.

S. P. Sherman, *English*.

J. A. Fairlie, *Political Science*.

W. E. Burge, *Physiology*.

M. Bentley, *Psychology*.

W. Trelease, *Botany*.

C. F. Hottes, *Plant Physiology*.

F. L. Stevens, *Plant Pathology*.

J. S. Kingsley, *Zoology*.

C. W. Alvord, *History*.

##### Professors—Continued :

W. S. Bayley, *Geology*.

L. M. Larson, *History*.

O. E. Lessing, *German*.

F. Smith, *Systematic Zoology*.

J. Stebbins, *Astronomy*.

K. McKenzie, *Romance Languages*.

W. A. Oldfather, *Classics*.

J. D. Fitz-Gerald, *Spanish*.

A. S. Pease, *Classics*.

C. Zeleny, *Zoology*.

A. H. Lybyer, *History*.

E. Bernbaum, *English*.

D. H. Carnahan, *Romance Languages*.

A. D. MacGillivray, *Systematic Entomology*.

A. T. E. Olmstead, *History*.

J. B. Shaw, *Mathematics*.

A. B. Coble

S. W. Parr, *Applied Chemistry*.

E. Bartow, *Sanitary Chemistry*.

G. F. N. Dailey, *Military Science and Tactics*.

G. T. Flom, *Scandinavian*.

T. E. Savage, *Stratigraphic Geology*.

##### Associate Professors :

H. V. Canter, *Classics*.

D. F. McFarland, *Applied Chemistry*.

**Associate Professors—Continued :**

- H. G. Paul, *English*.  
J. M. Mathews, *Political Science*.  
R. D. Carmichael, *Mathematics*.  
W. S. Robertson, *History*.

**Assistant Professors :**

- E. C. Baldwin, *English*.  
N. C. Brooks, *German*.  
J. W. Folsom, *Entomology*.  
A. Emch, *Mathematics*.  
F. W. Scott, *English*.  
H. S. V. Jones, *English*.  
L. Bloomfield, *Comparative Philology and German*.  
V. E. Shelford, *Zoology*.  
A. R. Crathorne, *Mathematics*.  
J. Zeitlin, *English*.  
A. C. Cole, *History*.  
G. D. Beal, *Chemistry*.  
A. A. Harding, *Music*.  
H. F. Harrington, *Journalism*.  
O. Kamm, *Chemistry*.  
A. J. Kempner, *Mathematics*.  
W. B. McDougall, *Botany*.  
J. H. Reedy, *Chemistry*.  
G. E. Wahlin, *Mathematics*.  
C. H. Woolbert, *Public Speaking*.

**COLLEGE OF EDUCATION.**

**Professors :**

- H. A. Hollister, *Education*.  
G. A. Huff, *Physical Education*.  
B. R. Buckingham, *Education*.  
E. H. Cameron, *Educational Psychology*.  
I. S. Griffith, *Industrial Education*.

**Associate Professors :**

- W. S. Monroe, *Education*.  
R. F. Seybolt, „

**Assistant Professors :**

- J. L. Griffith, *Physical Education*.  
P. E. Belting, *Secondary Education*.  
J. McKinney, *Industrial Education*.

**COLLEGE OF COMMERCE.**

**Professors :**

- D. Kinley, *Economics*.  
E. R. Dewsnap, *Railway Administration*.  
E. L. Bogart, *Economics*.  
N. A. Weston „  
H. T. Scovill, *Accountancy*.  
M. H. Robinson, *Industry and Transportation*.  
S. Litman, *Economics*.

**Assistant Professors :**

- E. J. Filbey, *Accountancy*.  
L. Morey „  
M. H. Hunter, *Economics*.  
G. Watkins „  
F. A. Russell, *Business Administration*.

**COLLEGE OF ENGINEERING.**

**Professors :**

- I. O. Baker, *Civil Engineering*.  
A. N. Talbot, *Municipal and Sanitary Engineering*.  
M. Brooks, *Electrical Engineering*.  
J. McL. White, *Architectural Engineering*.  
G. A. Goodenough, *Thermodynamics*.  
H. H. Stoek, *Mining Engineering*.  
A. P. Carman, *Physics*.  
C. T. Knipp, *Experimental Electricity*.  
F. R. Watson, *Experimental Physics*.  
J. Kunz, *Mathematical Physics*.  
N. C. Curtis, *Architectural Design*.  
C. R. Richards, *Mechanical Engineering*.  
E. B. Paine, *Electrical Engineering*.  
E. W. Washburn, *Ceramic Chemistry*.  
L. H. Profine, *Architectural Engineering*.  
H. F. Moore, *Engineering Materials*.  
F. H. Newell, *Civil Engineering*.  
C. A. Ellis, *Structural Engineering*.  
O. A. Leutwiler, *Machine Design*.  
C. W. Parmelee, *Ceramic Engineering*.  
A. C. Willard, *Heating and Ventilation*.  
J. McB. Snodgrass, *Railway Mechanical Engineering*.  
M. L. Enger, *Theoretical and Applied Mechanics*.  
E. E. King, *Railway Civil Engineering*.  
J. T. Rood, *Railway Electrical Engineering*.

**Associate Professors :**

- F. B. Seeley, *Theoretical and Applied Mechanics*.  
W. M. Wilson, *Structural Engineering*.

**Assistant Professors :**

- E. H. Waldo, *Electrical Engineering*.  
J. E. Smith, *Civil Engineering*.  
R. K. Hursh, *Ceramic Engineering*.  
H. H. Jordan, *Engineering Drawing*.  
V. R. Fleming, *Theoretical and Applied Mechanics*.  
H. F. Gonnerman, *Theoretical and Applied Mechanics*.  
A. P. Kratz, *Mechanical Engineering*.  
E. H. Williams, *Engineering Physics*.  
W. F. Schulz, *Physics*.  
R. Newcomb, *Architecture*.  
R. T. Jones „  
D. M. Allison „  
C. E. Palmer „  
H. W. Waterfall, *Mechanical Engineering*.  
J. B. Read, *Mining Engineering*.  
H. Z. Babbitt, *Municipal and Sanitary Engineering*.  
P. J. Kirfer, *Mechanical Engineering*.

## COLLEGE OF AGRICULTURE.

## Professors :

- E. Davenport, *Thermatology*.  
 H. W. Mumford, *Animal Husbandry*.  
 J. C. Blair, *Horticulture*.  
 W. J. Fraser, *Dairy Farming*.  
 H. S. Grindley, *Animal Nutrition*.  
 C. S. Crandall, *Pomology*.  
 J. W. Lloyd, *Olericulture*.  
 J. G. Mosier, *Soil Physics*.  
 L. H. Smith, *Plant Breeding*.  
 H. A. Harding, *Dairy Bacteriology*.  
 W. C. Coffey, *Sheep Husbandry*.  
 R. Graham, *Animal Pathology*.  
 W. L. Burlison, *Crop Production*.  
 H. B. Dörner, *Floriculture*.  
 J. L. Edmonds, *Horse Husbandry*.  
 W. F. Handschin, *Farm Organization and Management*.  
 B. S. Pickett, *Pomology*.  
 F. H. Rankin, *Agricultural Extension*.  
 J. E. Readhimer, *Soils*.  
 H. P. Rusk, *Cattle Husbandry*.  
 R. Stewart, *Soil Fertility*.  
 I. Bevier (Miss), *Home Economics*.  
 A. L. Whiting, *Soil Biology*.  
 J. A. Detlefsen, *Genetics*.

## Associate Professors :

- W. L. Gaines, *Milk Production*.  
 M. J. Prucha, *Dairy Bacteriology*.  
 J. C. Hackleman, *Farm Crops*.  
 M. Bunch (Miss), *Home Economics Extension*.  
 J. D. Bilsborrow, *Extension Service*.

## Assistant Professors :

- A. W. Nolan, *Agricultural Extension*.  
 E. W. Bailey, *Pomology*.  
 A. F. Gustafson, *Soil Physics*.  
 A. W. Jamison, *Agricultural Extension*.  
 E. V. Alstine, *Agronomy*.  
 F. N. Evans, *Landscape Gardening*.  
 H. W. Anderson, *Pomology*.  
 F. C. Bauer, *Soil Fertility*.  
 P. A. Lehenbauer, *Plant Physiology*.  
 H. H. Mitchell, *Animal Nutrition*.  
 H. A. Ruehe, *Dairy Manufacture*.  
 F. A. Wyatt, *Soil Fertility*.  
 W. H. Smith, *Animal Husbandry*.  
 G. Gusler               "       "  
 R. R. Snapp           "       "  
 F. A. Pearson, *Dairy Husbandry*.  
 E. M. Clark           "       "  
 J. G. Mackinnon, *Home Economics*.  
 W. A. Ruth, *Pomology*.

## COLLEGE OF LAW.

## Professors :

- H. W. Ballantine, *Law*.  
 O. A. Harker, *Law*.  
 F. Green,               "  
 E. H. Decker       "  
 J. N. Pomeroy     "  
 W. G. Hale         "

## LIBRARY SCHOOL.

Director.—P. L. Windsor, *Librarian*.

## Assistant Professors :

- F. Simpson, *Library Economy*.  
 F. R. Curtis (Miss), *Library Economy*.

## SCHOOL OF MUSIC.

Director.—J. L. Erb.

## Assistant Professors :

- G. F. Schwartz, *Music*.  
 A. A. Harding       "

86 Associates, 3 Lecturers, 87 Instructors, 158 Assistants, 55 Scientific Assistants, 26 Graduate Assistants, and 18 Student Assistants.

## COLLEGE OF MEDICINE.

## Professors :

- G. P. Dreyer, *Physiology and Physiological Chemistry*.  
 A. J. Ochsner, *Surgery and Clinical Surgery*.  
 C. S. Williamson, *Medicine*.  
 C. S. Bacon, *Obstetrics and Clinical Obstetrics*.  
 C. Davison, *Surgery*.  
 F. Tice, *Medicine*.  
 J. McI. Patton, *Medicine*.  
 N. H. Pierce, *Laryngology, Rhinology, and Otology*.  
 A. C. Eycleshymer, *Anatomy, Histology, and Embryology*.  
 W. McI. Harsha, *Surgery and Clinical Surgery*.  
 D. J. Davis, *Pathology and Bacteriology*.  
 J. H. Hess, *Pediatrics*.  
 A. E. Halstead, *Surgery and Clinical Surgery*.  
 H. A. McGuigan, *Pharmacology, Materia Medica, and Therapeutics*.  
 E. V. L. Brown, *Ophthalmology*.  
 H. D. Singer, *Psychiatry*.  
 C. E. Humiston, *Clinical Surgery*.

## Associate Professors :

- R. S. Yarros, *Obstetrics and Clinical Obstetrics*.  
 J. C. Beck, *Laryngology, Rhinology, and Otology*.  
 N. M. Percy, *Clinical Surgery*.  
 C. M. Jacobs, *Clinical Surgery (Orthopedic)*.  
 F. Smithies, *Medicine*.  
 E. L. Heintz, *Medicine and Clinical Medicine*.  
 M. Lewison, *Physical Diagnosis*.  
 G. F. Thompson, *Clinical Surgery*.  
 V. D. Lespinasse, *Surgery (Genito-Urinary)*.  
 A. R. Elliott, *Medicine*.  
 V. E. Emmel, *Anatomy*.



**Assistant Professors :**

- C. V. Bachele, *Obstetrics and Clinical Obstetrics.*  
 J. M. Lang, *Clinical Gynecology.*  
 F. D. Moore, *Surgery and Clinical Surgery.* [Obstetrics.  
 O. H. Rohrlack, *Obstetrics and Clinical*  
 W. H. Welker, *Physiological Chemistry.*  
 E. F. Leonard, *Neurology.*  
 R. L. Moodie, *Anatomy.*  
 C. M. McKenna, *Surgery (Genito-Urinary).*  
 B. F. Lounsbury, *Operative Surgery.*  
 H. B. Thomas, *Surgery (Orthopedic).*  
 W. C. Danforth, *Surgery.*  
 C. F. Read, *Psychiatry.*  
 H. C. Stevens, *Neurology.*  
 J. A. Cavanaugh, *Laryngology, Rhinology, and Otolary.*  
 J. R. Harger, *Surgery.*  
 K. A. Meyer, *Clinical Surgery.*  
 W. J. Woolston, *Clinical Surgery and Gynecology.*  
 R. Mosser, *Clinical Medicine.*  
 F. Chauvet, *Physical Diagnosis.*  
 H. E. Irish, *Pediatrics.*  
 C. C. Rogers, *Surgery.*  
 W. J. Crozier, *Physiology.*  
 J. E. Royer, *Neurology and Psychiatry.*  
 23 Associates, 3 Lecturers, 31 Instructors, and 20 Assistants.

**COLLEGE OF DENTISTRY.**

**Professors :**

- F. B. Moorehead, *Oral Surgery, Pathology, and Bacteriology.*

**Post-Graduate Courses (Advanced Degrees).**—A.M., M.S., Ph.D. Graduate courses

offered in Agronomy, Animal Husbandry, Architecture, Astronomy, Bacteriology, Botany, Business Organization and Operation, Ceramic Engineering, Chemistry, Civil Engineering, Classics, Comparative Philology, Dairy Husbandry, Economics, Education, Electrical Engineering, English, Entomology, Geology, German, History, Home Economics, Horticulture, Mathematics, Mechanical Engineering, Mechanics (Theoretical and Applied), Mining Engineering, Municipal and Sanitary Engineering, Philosophy, Physics, Physiology, Political Science, Psychology, Railway Engineering, Romance Languages, Sociology, Transportation, Zoology.

**Libraries.**—The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana, and also the libraries of the College of Medicine, and the School of Pharmacy in Chicago.

The several libraries contain 444,783 volumes, 109,528 pamphlets, and 3,051 maps.  
**Librarian :** P. L. Windsor, Ph.B.

**Museums.**—

- Classical Art and Archeology. *Curator :* A. S. Pease, Ph.D.  
 European Culture. *Curator :* N. C. Brooks.  
 Oriental. *Curator :* A. T. E. Olmstead, Ph.D.  
 Natural History. *Curator :* F. C. Baker, B.S.

**AFFILIATED INSTITUTIONS.**

- |                                    |                                    |
|------------------------------------|------------------------------------|
| Agricultural Experimental Station. | State Water Survey.                |
| Engineering Experimental Station.  | State Geological Survey.           |
| Natural History Survey.            | Board of Examiners in Accountancy. |

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—E. Davenport.

**Professors—Continued :**

- D. M. Gallie, *Operative Dentistry and Operative Technics.*  
 G. W. Dittmar, *Prosthetic Dentistry and Prosthetic Technics.*  
 F. B. Noyes, *Orthodontia and Dental Histology.*  
 E. D. Coolidge, *Materia Medica and Therapeutics.*  
 A. C. Eycleshymer, *Anatomy, Histology, and Embryology.*  
 G. P. Dreyer, *Physiological Chemistry.*  
 D. J. Davis, *Pathology and Bacteriology.*

**Associate Professors :**

- L. Schultz, *Oral Surgery and Pathology.*  
 L. E. Bake, *Operative Dentistry.*  
 S. P. Starr, *Prosthetic Technics.*  
 V. E. Emmel, *Anatomy.*

**Assistant Professors :**

- W. H. Welker, *Physiological Chemistry.* [try.  
 R. L. Moodie, *Anatomy.* [ing].  
 F. J. Bernhard, *Oral Surgery (Extract-J. C. McGuire, Roentgenology.*  
 W. I. Williams, *Operative Dentistry.*  
 3 Associates, 1 Lecturer, 12 Instructors, and 10 Assistants.

**SCHOOL OF PHARMACY.**

**Professors :**

- W. B. Day, *Materia Medica and Botany.*  
 M. A. Miner, *Pharmacy.*

**Assistant Professors :**

- C. M. Snow, *Pharmacy.*  
 A. H. Clark, *Chemistry.*  
 1 Lecturer, 4 Instructors.

## VALLETTA (Malta).

UNIVERSITY OF MALTA, Valletta, Malta. (1592.)

(Originally as a College by Gr. Master Verdala, and in 1769 as a University by G. M. Pinto and Pope Clement IV., now governed under statute of 1915.)

The University is a Roman Catholic Institution under direct control of the Government. There are internal and external students, the latter study in recognized Institutions, or under recognized teachers. The Degrees and Diplomas are open equally to both sexes.

*Terms* : Three per year.

*Students* : 300.

*Budget* : Expenditure about £8,000; Revenue, £3,000 from fees; £1,500 from endowments; and the rest from Government subsidy, the University being a State Institution.

## OFFICIALS.

*Visitor*.—His Ex. the Governor in Council.—General Sir H. C. O. Plumer, G.C.B. G.C.M.G., G.C.V.O., A.D.S.

*Officer Representing the Government*.—His Hon. the Lieutenant Governor.—His Hon. W. C. F. Robertson, C.M.G.

*Rector of the University*.—The Hon. Prof. E. Magro, M.D.

*Registrar and Secretary to the General Council*.—H. P. Scicluna, L.P., F. Cannilleri, (Acting).

*Accountant and Procurator*.—V. Territle.

*Curator of Museums*.—G. Despott.

## Degrees conferred :

## Degrees.

## Hoods

B.Litt. - - -	Black silk, lined with pink silk.
B.Sc. - - -	Black silk, lined with yellow silk.
B.Eng.A. - -	Black silk, lined with yellow silk, edged with green silk.
B.L.Can. - -	Black silk, lined with purple silk, edged with blue silk.
LL.B.- - -	Black silk, lined with blue silk.
M.B., Ch.B. -	Black silk, lined with crimson silk.
B.D. - - -	Black silk, lined with purple silk.

## PROFESSORS.

C. Samut, *Anatomy and Histology*.

T. Zammit, *Chemistry*. [ecture.

R. V. Galea, *Engineering and Archi-*

F. Debono, *Hygiene*.

D. Fallon, *English Literature*.

A. Bartoli, *Latin and Italian Literatures*.

G. Caruana, *Civil Law*.

A. Mercieca, *Commercial Law*.

E. C. Vassallo, *Constitutional and International Laws*.

L. A. Randon, *Criminal Law*.

A. Cuschieri, *Logic and Philosophy*.

W. F. Nixon, *Mathematics and Practical Engineering*.

J. L. Gatt, *Applied Mechanics*.

C. Mifsud, *Medicine*.

G. Debono, *Midwifery and Gynecology*.

S. Cassar, *Surgery*.

F. Debono, *Natural History*.

T. Agius, *Physics*.

G. Formosa, *Dogmatic Theology*.

C. C. Grima, *Moral Theology*.

8 Lecturers, 4 Assistants, and 1 Demonstrator.

## Libraries.—

University Reference Library, about 5,000 volumes.

Public Library, about 100,000 volumes, many MSS., and rare editions, and illuminated books.

*Librarians* : The Most Rev. Canon A. Mifsud, LL.B., Ph.D., D.D., and F. Cannilleri.

## Museums.—

The Archeological Museum, rich in prehistoric exhibits (local, but of the greatest importance).

The University Natural History Collections of local Fauna and Flora.

The University Fossil and Paleontological Museum (local, but also of unique importance).

Argotti Botanical Gardens.

Meteorological Observatory.

## AFFILIATED INSTITUTIONS.

The Archiepiscopal Seminary, Malta.

The Seminary, Goro.

Flores's College, Malta.

St. Aloysius College, Malta.

## VANCOUVER (British Columbia).

THE UNIVERSITY OF BRITISH COLUMBIA, Vancouver, B.C., Canada. (1915.)

*Terms* : Two a year.*Students* (1918-19): 538.*Budget* : (1918-19): \$274,543.

## OFFICIALS.

*Visitor*.—Sir F. S. Barnard (Lieut.-Governor of British Columbia).*Chancellor*.—R. E. McKechnie, M.D., C.M.*President*.—L. S. Klinck, M.S.A.*Dean of the Faculty of Arts and Sciences*.—(Vacant.)*Dean of the Faculty of Agriculture*.—F. M. Clement, B.S.A. (Prof. of Horticulture).*Dean of the Faculty of Applied Science*.—R. W. Brook, M.A., F.R.S.C., (Prof. of Geology).*Registrar*.—Stanley W. Matthews, M.A.*Bursar*.—F. Dallas.**Degrees conferred**.—M.A., M.Sc., B.A., B.Sc., B.S.A.*Hoods*.—The Bachelor's Hood is of the Cambridge pattern, black bordered with the distinctive colour of the particular faculty; the Master's Hood is lined with the same colour. The colours are: for Arts, University blue; for Science, red; for Agriculture, maize.

## PROFESSORS.

**Professors :**

- R. W. Brock, *Geology*. (Dean of the Faculty of Applied Science.)  
 F. M. Clement, *Horticulture*. (Dean of the Faculty of Agriculture.)  
 L. S. Klinck, *Agronomy*. (President.)  
 G. E. Robinson, *Mathematics*.  
 T. H. Boggs, *Economics, Sociology, and Political Science*.  
 D. McIntosh, *Chemistry*.  
 J. A. McLean, *Animal Husbandry*.  
 R. H. Mullin, *Bacteriology*.  
 J. M. Turnbull, *Mining*.  
 H. N. Thomson, *Metallurgy*.

**Associate Professors :**

- E. H. Archibald, *Chemistry*.  
 H. Ashton, *French*.  
 A. F. Barss, *Horticulture*.  
 P. A. Boving, *Agronomy*.  
 R. H. Clark, *Chemistry*.  
 T. C. Hebb, *Physics*.  
 J. G. Davidson, *Physics*.  
 J. Henderson, *Philosophy*.  
 A. H. Hutchinson, *Botany*.  
 L. Killam, *Mechanical Engineering*.  
 A. G. Lunn, *Poultry Husbandry*.  
 L. F. Robertson, *Classics*.  
 W. Sadler, *Dairying*.  
 G. G. Sedgewick, *English*.

**Assistant Professors :**

- A. F. B. Clark, *French*.  
 M. Eastman, *History*.  
 J. K. Henry, *English*.  
 E. T. Hodge, *Geology*.  
 E. E. Jordan, *Mathematics*.  
 H. M. King, *Animal Husbandry*.  
 H. T. Logan, *Classics*.  
 I. MacInnes, *Modern Languages*.  
 E. G. Matheson, *Civil Engineering*.  
 G. G. Moe, *Agronomy*.  
 E. H. Russell, "  
 W. N. Sage, *History*.  
 O. J. Todd, *Classics*.  
 F. G. C. Wood, *English*.  
 H. F. Angus, *Economics*.  
 J. Davidson, *In Charge of Herbarium and Botanical Gardens*.  
 P. N. Elliott, *Physics*.  
 G. A. Gillies, *Mining*.  
 G. Grojean, *Modern Languages*.  
 A. E. Hennings, *Physics*.  
 H. Karr-Simpson (Miss), *Modern Languages*.  
 Thorleif Larsen, *English*.  
 W. L. MacDonald, *English*.  
 L. Richardson, *Mathematics*.  
 C. C. Ryan, *Mechanical Engineering*.  
 W. L. Uglow, *Geology*.

17 Instructors, Demonstrators, etc.

**Post-Graduate Courses**.—Master of Arts, Master of Science.**Library**.—The University Library, consisting of 31,000 volumes and about 9,000 pamphlets. *Librarian* (Acting): J. Ridington.

## AFFILIATED INSTITUTIONS.

None as yet. Provision is made in the "British Columbia University Act" of an affiliation of theological colleges with the University. Any normal school organized by the Department of Education for the instruction and training of teachers in the Science of Education and the art of teaching may be affiliated with the University.

## VANCOUVER INSTITUTE.

The objects of the Institute are the study and cultivation of the Arts, Sciences, Literature, Music and kindred subjects, by means of lectures, exhibitions, publications, and such other means as may from time to time be deemed advisable.

## AFFILIATED ORGANIZATIONS.

Art, Historical, and Scientific Society.  
Academy of Science.  
Archaeological Institute.  
Architects' Institute of British Columbia.  
Vancouver Natural History Society.  
Vancouver Trades and Labour Council.  
Vancouver Teachers' Association.  
Women's University Club.  
B. S. Society of Fine Arts.  
B. C. Chamber of Mines.  
Alpine Club of Canada.

VANDERBILT UNIVERSITY. *See* NASHVILLE.

VASSAR COLLEGE. *See* POUGHKEEPSIE.

VICTORIA UNIVERSITY. *See* MANCHESTER.

VICTORIA UNIVERSITY. *See* TORONTO.

## WASHINGTON (District of Columbia).

WASHINGTON UNIVERSITY. *See* ST. LOUIS.

GEORGETOWN UNIVERSITY, Washington, D.C. (1788.)

*Terms* : Two per year.

*Students* : 2,140.

## OFFICIALS.

*President*.—Rev. J. B. Creeden, S.J.  
*Dean*.—Rev. W. Coleman Nevils, S.J.  
*Secretary*.—Rev. T. I. Gasson, S.J.

**Degrees conferred**.—D.D., LL.D., Ph.D., Litt.D., Sc.D., M.D., D.D.S., Phar.D., Mus.D., Ph.L., LL.M., L.D.M., M.S., LL.B., A.B., Ph.B., B.S., Mus.B., B.S. in Med.

## PROFESSORS.

## SCHOOL OF MEDICINE AND DENTISTRY.

## Professors :

S. S. Adams, *Theory and Practice of Medicine*.  
E. R. Stitt, *Tropical Medicine*.  
W. G. Morgan, *Gastro-Enterology*.  
G. M. Kober, *Hygiene*.  
H. S. Bernton, *Medical Jurisprudence*.  
J. D. Thomas, *Physical Diagnosis*.  
R. Devereux, *Therapeutics*.  
W. M. Barton, "  
C. L. Griffith, *Materia Medica*.  
R. A. Hamilton, *Pathology*.  
W. D. Webb, *Surgical*.  
H. F. Strine, "  
J. D. Hid, *Toxicology*.  
F. A. Tondorf, *Physiology*.  
F. A. Casteel, *Operative Dentistry*.  
S. W. Bowles, "  
B. L. Taylor, *Dental Pathology*.  
P. B. Bain, *Prosthetic Dentistry*.

## Professors—Continued :

H. Hopkins, *Orthodontia*.  
H. J. Nichols, *Oral Surgery*.  
W. B. Hoofnagle, *Dental Medicine*.  
C. A. Baker, *Crown and Bridge Work*.

## Associate Professors :

E. B. Behrend, *Medicine*.  
I. A. O'Donoghne, *Clinical Medicine*.  
J. A. Foote, "  
W. D. Tewksbury, *Physical Diagnosis*.  
F. Sohon, *Physical Diagnosis*.  
L. F. Kebler, *Materia Medica*.  
R. G. Blaine, *Toxicology*.  
W. F. Henler, *Anatomy*.  
T. B. Johnson, "  
F. Cary, *Prosthetic Dentistry*.

## Assistant Professors :

L. B. T. Johnson, *Hygiene*.  
J. J. McCarthy, *Physiology*.  
J. F. Crowley, "  
P. S. Madigan, "



**Assistant Professors—Continued :**

G. E. Ellis, *Physiology*.  
P. Newton, *Anatomy*.  
J. Pracher ..

**Clinical Professors :**

T. S. Lee, *Medicine*.  
C. C. Marbury, *Medicine*.  
F. Leech, *Infectious Diseases*.  
3 Associates, 16 Instructors, 6 Lecturers, 2 Assistants.

**FACULTY OF ARTS AND SCIENCES.**

**Professors :**

Rev. E. I. Devitt, *Colonial History*.  
Rev. T. I. Gasson, *Evidences of Religion*.  
Rev. V. S. McDonough, *Elocution*.  
Rev. A. P. Brosnan, *Ethics and Elocution*.  
Rev. J. G. Causey, *Psychology and Natural Theology*.  
Rev. J. T. Toohey, *Logic*.  
F. X. Siggins, *Rhetoric*.  
J. F. Shea, *Poetry*.  
Rev. C. H. Mahan, *Poetry and Elocution*.  
A. M. Guenther, *Poetry and German*.  
J. C. Glose, *Philosophy and English*.  
Rev. P. Archer, *Astronomy*.  
Rev. H. I. Storck, *Chemistry*.  
Rev. T. H. Miley, *Mathematics and Mechanics*.  
A. B. Langguth, *Chemistry and Mathematics*.  
T. J. Love, *Physics*.  
Rev. H. J. Shandelle, *German*.  
Rev. L. S. Weber, *French*.  
N. Boyton, *English*.  
B. A. Leeming, *Latin*.  
Rev. C. Briones, *Spanish*.  
Rev. J. F. K. Murphy, *History and Economics*.  
A. De Yturbide, *French*.  
J. E. Grattan, *Music*.

**Post-Graduate Courses** in the Departments of Philosophy, Economics, Language and Literature, History and Science.

**Library.**—Riggs' Memorial Library, 110,000 volumes. *Librarian* : Rev. H. J. Shandelle.

**Museums. —**

Coleman Museum of Natural History.  
Seismological Observatory. *Director* : Rev. F. A. Tondorf.  
Astronomical Observatory. *Director* : Rev. P. Archer.

**THE GEORGE WASHINGTON UNIVERSITY, Washington, D.C. (1821.)**

*Sessions* : Two, and a summer session.

*Students* : 3 400.

**OFFICIALS.**

*President.*—The Hon. W. M. Collier, M.A., LL.D.  
*Secretary.*—E. L. Kayser, M.A.  
*Treasurer.*—C. W. Holmes.

**Professors—Continued :**

J. E. Bates, *Accounting*.  
E. V. Bookmiller, *Military Science*.

**SCHOOL OF LAW.**

**Lecturers :**

G. E. Hamilton, *Legal Ethics*.  
Hon. J. H. Covington, *Associations*.  
Hon. A. M. Gould, *Contracts and Equity*.  
J. W. Yerkes, *Railroad Law*.  
Hon. H. S. Boutell, *International Law*.  
J. J. Hamilton, *Real Property and Bankruptcy*.  
A. A. Hoehling, *Real Property and Evidence*.  
J. S. Easby-Smith, *Personal Property*.  
F. J. Hogan, *Evidence, Wills, and Trial Practice*.  
D. W. O'Donoghue, *Common Law Pleading*.  
J. C. Adkins, *Sales and Bailments, and Criminal Procedure*.  
J. E. Laskey, *Criminal Law and Domestic Relations*.  
W. J. Hughes, *Federal Practice and Procedure*.  
T. Ewing, *Patent Law*.  
H. J. Fegan, *Law of Insurance and Agency*.  
F. S. Maquire, *Patent Law Practice*.  
C. J. Murphy, *Negotiable Instruments and Torts*.  
Rev. T. I. Gasson, *Natural Law and Canon Law*.  
M. Smith, *Civil Law*.  
R. C. Minor, *Conflict of Laws*.  
J. D. Sullivan, *Real Property*.  
R. S. Harvey, *Interpretation of Foreign and Domestic Commerce Legislation*.

**Professor :**

W. J. Kavanagh, *Argumentation and Public Speaking*.  
2 Assistant Professors.

**Department of Arts and Sciences :**School of Graduate Studies: *Acting Dean*.—G. N. Henning, M.A., Litt.D.Columbian College: *Dean*.—W. A. Wilbur, A.M., Litt.D.College of Engineering: *Dean*.—H. L. Hodgkins, Ph.D.Teachers College and the Summer School: *Dean and Director*.—W. C. Ruediger, Ph.D.Law School: *Dean*.—M. Le Roy Ferson, M.A., LL.B.**Department of Medicine :***Dean*.—W. O. Borden, M.D.*Assistant Dean*.—O. B. Hunter, A.B., M.D.*Dean* (Dental School).—C. J. Mess, D.D.S.National College of Pharmacy: *Dean*.—H. E. Kalusowski, Phar.D.College of Veterinary Medicine: *Dean*.—D. E. Buckingham, V.M.D.**Degrees conferred :***Degrees.**Hoods.*

- B.A. - - Hood of black woollen stuff, faced with white velvet, and lined with blue silk, with a buff chevron.
- B.S. - - (In Medicine, Chemistry, Chemical Engineering, Architecture, Mechanical, Civil and Electrical Engineering) Hood same as for B.A., but faced in gold yellow velvet instead of white.
- M.D. - - Same as above, with the exception of facing of green velvet.
- D.D.S. - - Same as above, with lilac facing.
- D.Ph. - - Same, but with olive facing.
- D.V.M. - - Same, but with grey facing.
- M.A. - - Same as B.A., and B.S., respectively, with the exception that hoods are one foot longer.
- Ph.D. - - Hood has panels and is faced with blue.

The Hoods for the honorary degrees differ from that of the Ph.D., in facing only. D.D. is faced in scarlet; LL.D. in purple; D.Sc., in gold yellow; Music, in pink; Litt.D., in white.

**PROFESSORS.****ARTS AND SCIENCES.****Professors :**

- H. L. Hodgkins, *Mathematics*.  
 H. Schoenfeld, *German*.  
 F. W. Clarke, *Mineral Chemistry*.  
 W. A. Wilbur, *English*.  
 C. C. Swisher, *History*.  
 M. Carroll, *Archeology and History of Art*.  
 P. Bartsch, *Zoology*.  
 G. N. Henning, *Romance Languages*.  
 A. B. Bibb, *Architecture*.  
 A. Hall, *Astronomy*.  
 A. Mann, *Botany*.  
 S. I. Franz, *Experimental Psychology*.  
 C. S. Smith, *Greek and Latin*.  
 W. C. Ruediger, *Educational Psychology*.  
 A. F. W. Schmidt, *German*.  
 W. L. Moore, *Applied Meteorology*.  
 W. J. Humphreys, *Meteorological Physics*.  
 E. E. Richardson, *Philosophy*.  
 G. W. Littlehales, *Nautical Science*.  
 R. S. Bassler, *Geology*.  
 R. R. Kern, *Economics*.  
 A. L. Harris, *Architecture*.  
 De W. C. Croissant, *English*.  
 J. de S. Coutinho, *Portuguese Language and Literature*.  
 L. Cohen, *Radio-Electricity*.

**Professors :—Continued :**

- I. Schapiro, *Semitic Languages and Literature*.  
 T. Michelson, *Ethnology*.  
 C. E. Hill, *Political Science*.  
 J. T. Erwin, *Mathematics*.  
 A. S. Cushman, *Chemistry*.  
 H. C. McNeil, „  
 O. D. Swett, „

**Assistant Professors :**

- N. M. Hopkins, *Chemistry*.  
 E. A. Hill „  
 L. R. Alden, *History*.  
 B. Brown, *Architecture*.  
 G. M. Churchill, *History*.  
 E. R. Noyes, *Chemistry*.  
 T. B. Brown, *Physics*.  
 C. C. Kochenderfer, *Commerce*.  
 H. D. Doyle, *Romance Languages*.  
 L. E. McArthur, *History*.  
 E. L. Kayser, *History*.  
 3 Lecturers.

**COLLEGE OF ENGINEERING.****Professor :**

- A. B. McDaniel, *Civil Engineering*.

**Assistant Professors :**

- J. R. Lapham, *Civil Engineering*.  
 W. D. Halsey, *Mechanical Engineering*.  
 A. F. Johnson, *Naval Architecture*.

**Assistant Professors—Continued :**

- K. Honoman, *Electrical Engineering*.  
S. R. Parsons, *Mechanics*.  
L. D. Norsworthy, *Civil Engineering*.  
21 Lecturers.

**SCHOOL OF LAW.**

**Professors :**

- M. L. Ferson, *Law*.  
W. C. Clephane, *Law*.  
E. C. Brandenburg, *Law*.  
A. Peter, *Law*.  
J. P. Earnest, *Law*.  
W. P. Stafford, "  
J. W. Latimer, "

**Associate Professor :**

- L. H. Sutton, *Patent Law*.

**Assistant Professors :**

- A. King, *Law*.  
W. C. Van Vleck, *Law*.  
C. S. Collier, "  
M. I. Schnebly, "  
J. M. McFall, "  
1 Lecturer.

**SCHOOL OF DENTISTRY.**

**Professors :**

- C. J. Mess, *Prosthetic Dentistry*.  
A. S. Wolfe, *Operative Dentistry and Oral Surgery*.  
C. S. White, *Oral Surgery*.  
O. B. Hunter, *Bacteriology and Pathology*.  
T. R. Wilkerson, *Oral Hygiene*.  
H. C. Hopkins, *Orthodontia*.  
C. L. Constantini, *Ethics and Dental History*.  
J. R. DeFarges, *Dental Jurisprudence*.  
A. B. Bibb, *Technical Drawing*.  
C. B. Shelton, *Dental Economics*.  
A. B. Crane, *Mouth Infections*.

**Associate Professors :**

- J. W. Bernhard, *Crown and Bridge Work*.  
W. L. Hagen, *Operative Technics*.  
C. G. Shoemaker, *Operative Technics*.  
J. W. Taylor, *Prosthetic Technics*.  
H. C. Young, "  
H. Becker, *Crown and Bridge Work*.  
E. J. Copping, *Orthodontia*.  
J. R. Palkin, *Oral Surgery*.  
R. L. Morrison, *Operative Dentistry*.  
P. S. Putzki, *Oral Surgery*.  
E. R. Hagen, *Prosthetic Dentistry*.  
S. V. Mead, *Roentgenology*.  
J. H. Roe, *Chemistry*.  
W. W. Wyman, *Prosthetic Dentistry*.  
V. J. Lohr, *Crown and Bridge Work*.  
9 Lecturers.

**SCHOOL OF MEDICINE.**

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- G. N. Acker, *Pediatrics and Medicine*.  
S. Ruffin, *Medicine*.  
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J. W. Boves, *Gynecology*.  
R. B. Carmichael, *Dermatology*.  
F. R. Hagner, *Genito-Urinary Surgery and Venereal Diseases*.  
W. A. White, *Psychiatry and Clin. of Neurology*.  
S. I. Franz, *Physiology*.  
B. M. Randolph, *Materia Medica and Therapeutics*.  
L. A. La Garde, *Military Surgery and Sanitation*.  
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T. Abbe, *Roentgenology*.  
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D. Le R. Borden, *Surgery*.  
G. F. Clark, *Tropical Medicine*.  
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J. H. Roe, *Chemistry*.  
J. B. Nichols, *Medicine*.  
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H. R. Elliott, *Physiology*.  
J. L. Riggles, *Gynecology*.  
W. C. Moore, *Medicine*.  
C. B. Conklin, "  
C. W. Hyde, "  
W. J. Mallory, "  
J. L. Thompson, "

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T. A. Claytor, *Medicine*.  
A. L. Staveley, *Gynecology*.  
L. H. Reichelderfer, *Surgery*.  
G. B. Miller, *Gynecology*.  
W. S. Bowen, *Obstetrics*.  
O. A. M. McKimmie, *Laryngology and Otology*.  
F. Leech, *Medicine*.  
H. H. Kerr, *Surgery*.  
W. P. Reeves, "

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 H. H. Donnally, *Pediatrics*.  
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 J. D. Rogers, *Surgery and Obstetrics*.

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**Libraries.**—

The University Library.

Arts and Sciences Library, 45,000 bound volumes.

The Law Library, 8,000 bound volumes.

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- F. J. Hemelt, *English Language and Literature*.  
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Post-Graduate Courses in all faculties.

**Libraries.—**

Law Library of 13,500 volumes.  
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*Librarians* : T. C. Carrigan (Law Library); J. Schneider (General Library).

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General Museum. *Curator* : Rev. R. Butin.  
Sociological Museum. *Curator* : Rev. W. J. Kerby.  
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**UNITED STATES COAST AND GEODETIC SURVEY, 205, New Jersey Avenue, Washington, D.C.**

*Superintendent*.—E. L. Jones.

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**Library**.—30,000 volumes; 10,000 pamphlets; 80,000 original records of observations; 8,000 original Hydrographic and Topographic Sheets; 70,000 Charts, Maps, blue prints, and atlases. *Librarian* : W. A. Masker, jr.

**UNITED STATES GEOLOGICAL SURVEY, Washington, D.C. (1879.)**

Engaged in researches regarding the characters, origin, distribution, and structure of the geological formations; the mineral resources, their nature, qualities, relations, and amounts; the classification of the lands of the national domain, and the determination of the nation's water resources, and makes topographic maps of the entire country.

Yearly appropriation, approximately \$1,500,000.

Has published some 1,500 volumes of reports, and over 2,500 standard topographic maps.

**Associate Professors—Continued :**

- Rev. C. A. Dubray, *Philosophy*.  
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W. C. Alden, *Glacial Geology*.

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In addition, there are a great number of geologists, topographers, engineers, etc., who spend part of their time each year on work for the Survey.

**Library.**—Established 1882, estimated to contain 145,000 books, 103,000 brochures and 36,000 maps. *Librarian :* Miss J. L. V. McCord. *Bibliographer :* J. M. Nickles.

**THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,**

Smithsonian Institution, Washington, D.C. (1848.)

*Permanent Secretary.*—L. O. Howard.

**Publications.**—Science, The Scientific Monthly.

**THE SMITHSONIAN INSTITUTION, Washington, D.C.**

Created by Act of Congress approved August 10, 1846, under the terms of the will of James Smithson, an Englishman, who in 1826 bequeathed his fortune to the United States to found, at Washington, under the name of the "Smithsonian Institution," an establishment for the "increase and diffusion of knowledge among men." The Institution has as its members the President of the United States, the Vice-President, the Chief Justice, and the President's Cabinet. It is governed by a Board of Regents consisting of the Vice-President, the Chief Justice, three members of the United States Senate, three members of the House of Representatives, and six citizens of the United States appointed by joint resolution of Congress. The Secretary of the Smithsonian Institution is its executive officer and the director of its activities.

By the accumulation of income, gifts, and bequests, the Smithsonian Fund now amounts to over one million dollars, from the income of which the Institution is supported.

Through the Hodgkins Fund, the income of \$100,000 of which is for the increase and diffusion of knowledge in regard to the nature and properties of atmospheric air in connection with the welfare of man, grants have been made, publications issued, and medals and prizes awarded.

Government Bureaus (supported by Congressional appropriations) under the direction of the Smithsonian Institution.

**UNITED STATES NATIONAL MUSEUM.**

The United States National Museum is the depository of the national collections. It is especially rich in the natural history of America, including zoology, botany, geology, paleontology, archeology, and ethnology, and has extensive series relating to the arts and industries, the fine arts, and American history.

The National Gallery of Art contains the George P. Marsh collection of etchings, engravings, and books on art; the Charles L. Freer collection, comprising numerous paintings, etchings, etc., by Whistler, and other American artists, and many examples of Japanese and Chinese art; The Harriet Lane Johnston collection, including a number of portraits by British masters; and the William T. Evans collection of painters by contemporary American artists.

Appropriation for 1919, \$382,500.00.

**INTERNATIONAL EXCHANGE SERVICE.**

The International Exchange Service is the agency of the United States Government for the exchange of scientific, literary, and governmental publications with foreign Governments, institutions, and investigators. It receives and dispatches about 600,000 pounds of printed matter annually.

Appropriation for 1919, \$35,000.00.

**BUREAU OF AMERICAN ETHNOLOGY.**

The Bureau of American Ethnology is engaged in the collection and publication of information relating to the American Indians, and the natives of Hawaii.

Appropriation for 1919, \$42,000.00.

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The Astrophysical Observatory investigates solar radiation and other solar phenomena. The work of this observatory is carried on partly in Washington and partly at a station on Mount Wilson in California.

Appropriation for 1919, \$13,000.00.

**NATIONAL ZOOLOGICAL PARK.**

The National Zoological Park has an area of 167 acres, and is located in the Rock Creek Valley, 2 miles north of the centre of Washington. Its collection comprises about 1,500 animals.

Appropriation for 1919, \$115,000.00.

## INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.

The International Catalogue of Scientific Literature publishes an annual classified index to the literature and science. The organization consists of a central bureau in London and 33 regional bureaux established in, and supported by, the principal countries of the world. That for the United States is supported by an annual appropriation from Congress, administered by the Smithsonian Institution.

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*Printing and Binding.*—Appropriation for 1919, \$76,200.00.

Organization of the Smithsonian Institution and its branches:

## SMITHSONIAN INSTITUTION.

*Secretary.*—C. D. Walcott.

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*Chief Clerk.*—H. W. Dorsey.

*Editor.*—W. P. True.

**Library.**—(Including Smithsonian Deposit in the Library of Congress), about 300,000 volumes.

*Assistant Secretary in Charge.*—C. G. Abbot.

*Assistant Librarian.*—P. Brockett.

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L. O. Howard, *Division of Insects.*

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J. N. B. Hewitt.	J. Mooney.
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*Illustrator*.—De L. Gill.

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**REGIONAL BUREAU FOR THE UNITED STATES INTERNATIONAL CATALOGUE OF SCIENTIFIC LITERATURE.**

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**THE CARNEGIE INSTITUTION OF WASHINGTON, D.C. (1902.)**

Endowed with a sum of twenty-two million dollars by the late Andrew Carnegie, "to encourage in the broadest and most liberal manner, investigation, research, and discovery, and the application of knowledge to the improvement of mankind."

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*Chairman, Board of Trustees*.—E. Root.

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Department of Experimental Evolution. (See Cold Spring Harbour.)  
 Department of Botanical Research. (See Tucson.)  
 Department of Embryology. (See Baltimore.)  
 Department of Marine Biology. (See Turtugas.)  
 Department of Meridian Astrometry. (See Albany.)  
 Mound Wilson Solar Observatory. (See Pasadena.)  
 Nutrition Laboratory. (See Boston, Mass.)  
 Department of Terrestrial Magnetism, 36th Street, Washington, D.C.

*Director*.—L. A. Bauer.

Besides work in terrestrial magnetism, researches are carried out in atmospheric electricity and allied subjects, also in magnetism in general and kindred topics. Physical laboratories, etc., are at National Rock Creek Park.

**GEOPHYSICAL LABORATORY**, Upton Street, Washington, D.C.

*Director.*—A. L. Day.

Carries out investigations to determine the modes of formation and the physical properties of the rocks of the earth's crust.

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Washington, D. C

*Director.*—J. F. Jameson.

Prepares publications intended to assist investigators in American History. It issues reports, etc., on historical documents hitherto unclassified and relatively inaccessible.

**THE DEPARTMENT OF AGRICULTURE**, Washington, D.C.

*Secretary of Agriculture.*—D. F. Houston.

Executive and administrative head of the department.

*Solicitor.*—W. W. Williams.

Legal adviser to the secretary and the heads of the several branches of the Department, conducts its legal work, and represents it in all legal matters.

*Office of Farm Management.*—H. C. Taylor (Chief).

Studies the details of farm practice from a business standpoint, with a view to determining the most efficient methods of operation.

*Weather Bureau.*—C. F. Marvin (Chief).

Conducts meteorological investigations; issues weather maps; handles all work relating to climate, storm warnings, frost warnings, etc.

*Forest Service.*—H. S. Graves (Forester).

Administers the national forests and develops use of their resources; directs all research work relating to forestry and forest utilization.

*Bureau of Animal Industry.*—J. R. Mohler (Chief).

Studies and gives information regarding live stock; conducts the meat inspection and quarantine work.

*Bureau of Plant Industry.*—W. A. Taylor (Chief).

Investigates problems relating to plants and plant industries.

*Bureau of Chemistry.*—C. L. Alsberg (Chief.)

Enforces the Food and Drugs Act; investigates questions of agricultural chemistry.

*Bureau of Soils.*—M. Whitney (Chief).

Surveys and maps the soils and investigates the fertilizer resources of the United States.

*Bureau of Crop Estimates.*—L. M. Estabrook (Chief).

Collects crop statistics; issues crop reports and forecasts; gathers and collates general agricultural statistics.

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Studies insects in their relation to agriculture.

*Bureau of Biological Survey.*—E. W. Nelson (Chief).

Studies wild birds and animals, their distribution, habits, and relations to agriculture; administers the Federal bird and game reservations, and the Federal laws protecting game and regulating the importation of birds and animals; controls noxious mammals, and experiments in fur farming.

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Studies and supplies information regarding road making, road management, road maintenance, farm irrigation, farm drainage, and rural engineering and architecture.

*States Relations Service.*—A. C. True (Director).

Supervises the use of Federal funds for agricultural experiment stations and agricultural extension work; investigates agricultural education, and food, dietetics, clothing, and household equipment and management.

*Bureau of Markets.*—G. Livingston (Acting Chief).

Investigates problems pertaining to marketing and distribution of farm products and organizing rural communities for marketing, rural credit, and

other purposes. Maintains market news services on fruits and vegetables, live stock and meats, hay and seeds, dairy and other products, and inspects shipments of fruits and vegetables upon request. Enforces Cotton Futures Act, Grain Standards Act, Standard Container Act, and administers the Warehouse Act.

*Division of Publications.*—E. B. Reid (Chief).

Supervises the work connected with the printing and distribution of the publications of the department.

*Federal Horticultural Board.*—C. L. Marlatt (Chairman).

Assists in the enforcement of the Plant Quarantine Act of August 20th, 1912.

*Insecticide and Fungicide Board.*—J. K. Haywood (Chairman).

Assists in the enforcement of the Insecticide Act of 1910.

**Library.**—*Librarian:* Claribel R. Barnett. Acquires and makes available the literature necessary for use in the work of the Department.

### LIBRARY OF CONGRESS. (1800.)

In 1814 the collection was destroyed by the burning of the Capitol. In 1815 the Jefferson Library of 6,700 volumes was purchased from Ex-President Jefferson as a basis for a new collection. A fire in 1851 destroyed 35,000 volumes out of a collection of 55,000, including two-thirds of the Jefferson Library. At a late date the Library was replenished. The Smithsonian Library, consisting of about 40,000 volumes of Transactions of learned and scientific societies, was added in 1867. Removed from the Capitol to the present site in 1897. The building occupies  $3\frac{3}{4}$  acres, upon a site 10 acres in extent, and is the largest library building in the world. In the decorations some forty painters and sculptors are represented (all American citizens). The book stacks contain a total of about 100 miles of shelving, with capacity for 3,540,000 octavo volumes of books and 84,000 volumes of newspapers.

The Library, though still entitled the Library of Congress, is no longer solely nor chiefly a legislative library. In its general relations, character, scope, and service, it is the National Library of the United States.

### OFFICIALS.

#### General Administration.

*Librarian of Congress.*—Herbert Putnam.

*Chief Assistant Librarian.*—Appleton P. C. Griffin.

*Chief Clerk.*—Allen R. Boyd.

*Secretary.*—Jessica L. Farnum.

#### Main Reading Room.

*Superintendent.*—F. W. Ashley.

*Chief Assistants.*—H. A. Morrison, J. G. Morrison.

*Reading Room for the Blind.*—Mrs. G. T. Rider.

*Representatives' Reading Room.*—L. Washington.

### CHIEFS OF DIVISIONS.

H. H. B. Meyer, *Bibliography.*

A. R. Kimball, *Binding.*

C. H. Hastings, *Card.*

C. Martel, *Catalogue.*

C. W. Perley, *Classification.*

H. J. Harris, *Document.*

C. W. Collins, jr. (Administrative

Assistant), *Legislative Reference.*

S. M. Croft, *Mail and Delivery.*

C. Moore (Acting Chief), *Manuscript.*

P. L. Phillips, *Maps and Charts.*

W. R. Whittlesey (in charge), *Music.*

W. A. Slade, *Periodical.*

R. A. Rice (Acting Chief), *Print.*

I. Schapiro (in charge), *Semitic.*

P. Brockett (Custodian), *Smithsonian.*  
(Office at Smithsonian Institution).

#### Law Library.

(F. H. Parsons in charge.)

*Law Librarian.*—Gilbert Hirsch.

#### Copyright Office.

*Registrar.*—T. Solberg.

*Assistant Registrar.*—A. Crisfield.

**Building and Ground.***Superintendent.*—F. L. Averill.

**Divisions.**—There are seventeen divisions in the Library proper, entitled as follows: Reading Room, Bibliography, Binding, Card, Catalogue, Classification, Documents, Mail and Delivery, Manuscripts, Maps and Charts, Music, Order, Periodical, Prints, Semitic, Smithsonian, Law Library.

The Printing Office and Bindery, though located in the Library, are branches of the Government Printing Office. The Legislative Reference Division, established in 1915, undertakes for Congress the service of research and compilation familiar in certain of the States.

**Volumes.**—The collection is now the largest on the Western Hemisphere, and the third in the world. It comprises about 2,710,556 printed books and pamphlets (including the Law Library of 187,322 volumes which, while a division of the Library of Congress, still remains at the Capitol), 163,484 maps and charts, 848,292 pieces of music, and 409,029 photographs, prints, engravings, and lithographs.

Among the special book collections are the Yudin, of Russian literature (86,000 volumes); the Schiff, of Judaica (about 20,000); the Weber, of India; the Huitfeldt-Kaas (Scandinavian); the John Boyd Thacher of Incunabula (930 titles). The Orientals include some 5,000 volumes (fascicules) of Japanese books and about 40,000 volumes (fascicules) of Chinese.

**Publications.**—The publications of the Library fall into five classes: (1) Annual reports of the librarian; (2) Bibliographies, consisting of exhaustive lists of works contained in the Library, such as the list of books on the Philippine Islands, Biblioteca Filipina, etc.; (3) Reference lists consisting of select lists on subjects of immediate interest—Marine subsidies, Reciprocity, Trusts, Federal control of commerce, etc.; (4) Catalogues of special Collections belonging to the Library—*e.g.*, Catalogue of the Gardiner Greene Hubbard collection of engravings, Catalogue of the John Boyd Thacher collection of Incunabula; (5) Calendars of and reprints of special collections of manuscripts—*e.g.*, Calendar of the correspondence of George Washington, 4 vols., Journals of the Continental Congress; (6) Reports and compendiums on library history and methods; catalogue rules, classification, schedules, etc. The bibliographical publications and administrative reports are distributed free to libraries and institutions.

**Copyright.**—The Copyright Office, though attached to the Library, and under the general direction of the librarian, is in effect a distinct bureau. The appropriation for it (in 1919, \$104,740) is more than offset by fees covered into the Treasury (in 1918, \$113,118).

**Library Staff.**—The Library has 667 employees including in the Library proper 263; Copyright Office, 91; Legislative Reference, 30; department for the distribution of catalogue cards, 45; disbursement service and care of building and grounds, 141.

**Income.**—The Library is maintained by annual appropriation by Congress, for various purposes, including the purchase of books. For the year 1919, these amounted to \$707,925 (not including allotment for printing and binding, \$200,000), as follows: \$566,425 for service and contingent expenses (including the Copyright Office, and including also the care of the building); \$98,000 for books and periodicals; \$21,500 for fuel, supplies, and miscellaneous purposes; \$22,000 for furniture and shelving.

**Expenditures.**—Expenditures correspond to the appropriations.

**U. S. PUBLIC HEALTH SERVICE** (Treasury Department), 25th and E. Streets, N.W., Washington, D.C.

Established at Stapleton, N.Y., 1887; removed to Washington, 1891.

**Functions.**—The study of diseases of man and conditions influencing their propagation and spread, including sanitation and sewage and the pollution of water supplies; the standardization and supervision of viruses, serums, toxins, antitoxins, and allied products; post-graduate studies for officers of the Service and of Municipal and State Health Departments.

**OFFICIALS.**

*Surgeon General.*—R. Blue, United States Public Health Service.

*Advisory Board.*—Nine Members.



# LABORATORY.

*Director.*—G. W. McCoy (Surgeon).  
*Assistant Director.*—A. M. Stimson (Surgeon).  
*Execution Clerk.*—C. E. B. K. Foltz.  
*Senior Pharmacist.*—C. O. Sterns.  
*Junior Pharmacist.*—C. C. Cannon.  
*Artist.*—L. H. Wilder.  
*Librarian.*—M. G. Motter.

**Reference Library.**—8,000 bound volumes, and 10,000 pamphlets and reprints.

## DIVISION OF PATHOLOGY AND BACTERIOLOGY.

### In charge of Division.

G. W. McCoy (Surgeon).

### Assistants :

A. M. Stimson (Surgeon).  
 B. J. Lloyd (Surgeon).  
 C. W. Chapin (Surgeon).  
 H. E. Hasseltine (Passed Assistant Surgeon).  
 J. P. Leake (Passed Assistant Surgeon).  
 G. C. Lake (Assistant Surgeon).

### Bacteriologists :

T. W. Kammerer. A. Bengtson (Miss).  
 H. B. Corbitt. A. C. Evans (Miss).

### Technical Assistant :

W. D. Cannon.

## DIVISION OF ZOOLOGY.

### Chief of Division :

C. W. Stiles.

### Laboratory Aids :

M. L. Brown (Miss). M. Wood (Miss).  
 E. Rowntree (Miss).

## DIVISION OF PHARMACOLOGY.

### Chief of Division :

C. Voegtlin.

### Technical Assistants :

A. Seidell.  
 G. B. Roth.  
 A. G. Du Mez.  
 J. M. Johnson (Physiological Chemist).  
 C. W. Hooper (Pathologic Physiologist).  
 A. C. Livingston (Physiologist).  
 A. C. Kolls (Pharmacologist).  
 H. W. Smith (Assistant Pharmacologist).  
 M. M. Crane (Miss), (Assistant Pharmacologist).  
 K. D. Wright (Miss), (Scientific Assistant).  
 M. A. Connell (Miss), (Scientific Assistant).

## DIVISION OF CHEMISTRY.

### Chief of Division :

Vacant.  
 E. Elvove (in charge of the Division *ad interim*), (Physiological Chemist).  
 H. L. Shoub (Technical Assistant).  
 E. J. Casselman (Assistant Chemist).  
 C. G. Remsburg (Assistant in Chemistry).  
 O. H. Schunk (Assistant in Chemistry).

## THE WASHINGTON ACADEMY OF SCIENCES, Washington, D.C. (1898.)

### OFFICIALS.

*President.*—C. L. Alsberg.  
*Corresponding Secretary.*—R. B. Sosman.  
*Recording Secretary.*—W. R. Maxon.  
*Treasurer.*—R. L. Faris.

The Academy is affiliated with the following societies:

Anthropological, Archeological, Biological, Botanical, Chemical, Electrical Engineers', Engineers', Entomological, Foresters', Geographic, Geological, Historical Medical, and Philosophical.

**Publications.**—Proceedings (quarterly, discontinued in 1911); Journal (semi-monthly).

## AMERICAN HISTORICAL ASSOCIATION.

(Organized September, 1884. Chartered by Act of Congress March 3rd, 1889.)

Object: Promotion of historical studies.

### OFFICIALS.

*President.*—W. R. Thayer.  
*First Vice-President.*—E. Channing.  
*Second Vice-President.*—J. J. Jusserand.  
*Secretary.*—W. G. Leland.  
*Treasurer.*—C. Moore.  
*Secretary of the Council.*—E. B. Greene.

**Publications.**—

*Annual Report*, which is transmitted to the Secretary of the Smithsonian Institution for publication by authority as a public document.

*American Historical Review*, published quarterly by the Macmillan Company, New York. *Managing Editor*: J. F. Jameson.

**Annual Meetings.**—Held in December, in various cities.

**Membership.**—2,600. Annual income from dues and investments, \$10,000.

**THE ANTHROPOLOGICAL SOCIETY OF WASHINGTON.**

Organized 1879, "to encourage the study of the natural history of man, especially with reference to America."

**OFFICIALS.**

*President.*—G. M. Kober.

*Vice-President.*—T. Michelson.

*Secretary.*—F. Neumann.

*Treasurer.*—J. N. B. Hewitt.

**Publications.**—Transactions (3 volumes); Abstract Transactions (1 volume); American Anthropologist.

**THE ARCHEOLOGICAL INSTITUTE OF AMERICA.**

Founded 1879. Headquarters 1741, New York Avenue, Washington, D.C.

Its purpose is "to promote and direct archeological research." It has 45 branches, located in various cities of the United States and Canada. The Washington Society of the Archeological Institute of America was founded April 7th, 1902.

**OFFICIALS OF THE WASHINGTON SOCIETY.**

*President.*—Robert Lansing.

*Secretary.*—M. Carroll.

*Treasurer.*—J. B. Larnier.

**BIOLOGICAL SOCIETY, c/o Cosmos Club, Washington, D.C., U.S.A.**

The Biological Society of Washington was organized in 1880, "to encourage the study of the Biological Sciences and to hold meetings at which papers shall be read and discussed."

**OFFICIALS.**

*President.*—H. M. Smith.

*Vice-Presidents.*—

A. D. Hopkins.

N. Hollister.

Vernon Bailey.

A. S. Hitchcock.

*Recording Secretary.*—M. W. Lyon, Jr.

*Corresponding Secretary.*—W. L. McAtee.

*Treasurer.*—N. Dearborn.

**Publications.**—Proceedings of the Biological Society of Washington, 32 volumes. The current proceedings of the Society are also published in the Journal of the Washington Academy of Sciences.

The Society meets bi-monthly October to May.

**THE BOTANICAL SOCIETY OF WASHINGTON. (Organized 1901.)**

The object of the Society is "the exposition and discussion of the results of botanical investigations, and the promotion of social intercourse among the members."

**OFFICIALS.**

*President.*—K. F. Kellerman.

*Vice-President.*—C. R. Ball.

*Recording Secretary.*—C. E. Chambliss.

*Corresponding Secretary.*—R. K. Beattie.

*Treasurer.*—L. L. Harter.

**THE CHEMICAL SOCIETY OF WASHINGTON. (Organized 1884.)**

In 1893 it became a section of the American Chemical Society.

**OFFICIALS.**

*President.*—C. O. Johns.

*Secretary.*—E. C. McKelvy.

*Treasurer.*—F. P. Dewey.

**Publication.**—Bulletin of the Chemical Society of Washington (discontinued).

**THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.** Founded 1884.  
Devoted to the interest of Electrical Engineering and the development of Applied Electricity.

**OFFICIALS OF THE WASHINGTON SECTION.**

*Chairman.*—J. E. Smith.

*Secretary.*—M. Flanders.

**THE WASHINGTON SOCIETY OF ENGINEERS.** (Organized 1905. Incorporated 1909.)

The purpose of the Society is "the advancement of engineering knowledge and practice, and the maintenance of a high professional standard among its members."

**OFFICIALS.**

*President.*—M. Hacker.

*Vice-President.*—W. C. Thom.

*Secretary.*—W. E. Parker.

*Treasurer.*—G. P. Springer.

**THE ENTOMOLOGICAL SOCIETY OF WASHINGTON.** (Organized 1884.)

"To promote the study of Entomology in all possible bearings."

**OFFICIALS.**

*Honorary President* (permanent).—E. A. Schwarz.

*President.*—E. R. Sasser.

*First Vice-President.*—W. R. Walton.

*Second Vice-President.*—A. B. Gahan.

*Recording Secretary.*—R. A. Cushman.

*Corresponding Secretary-Treasurer.*—S. A. Rohwer.

*Editor.*—A. C. Baker.

**Publications.**—Proceedings of the Entomological Society of Washington (annual).

**THE SOCIETY OF AMERICAN FORESTERS,** Atlantic Building,  
Washington, D.C.

The Society of American Foresters was organized in 1900, "to further the cause of forestry in America by fostering a spirit of comradeship among foresters; by creating opportunities for a free interchange of views upon forestry, and allied subjects; and by disseminating a knowledge of the purpose and achievements of forestry." Senior members are professional foresters. Associate members are persons who have rendered distinguished service to the cause of American forestry, but who are not professional foresters.

**OFFICIALS.**

*President.*—E. F. Olmsted.

*Vice-President.*—W. W. Ashe.

*Secretary.*—P. D. Kelleter.

*Treasurer.*—A. F. Hawes.

In 1917 the Proceedings of the *Society of American Foresters*, of which 11 volumes had been issued, was amalgamated with the *Forestry Quarterly*. The new publication is issued semi-quarterly under the name of *Journal of Forestry*. The current proceedings of the local section are published in the *Journal of the Washington Academy of Sciences*.

**THE NATIONAL GEOGRAPHIC SOCIETY,** Hubbard Memorial Hall, 16th Street,  
Washington, D.C.

Founded in 1888, "for the increase and diffusion of geographic knowledge," the Society has now more than 675,000 members. In the promotion of its purpose to increase geographic knowledge, its expeditions have unearthed Machu Picchu, the holy city of the Incas, and the staircase farms of the ancients in America, which far eclipse the hanging gardens of Babylon; have studied the problems of volcanism and earthquakes in the West Indies, Alaska, and the Mediterranean; have made exhaustive study of glacial action in Alaska, and accomplished other important investigations and discoveries. In the work of diffusing geographic knowledge, it publishes a magazine which reaches more than 675,000 homes, conducts a bureau of information which furnishes daily statements without charge to the press of the United States

concerning places and matters of geographic interest in the public eye, publishes books, maps, and monographs, and otherwise cultivates a national interest in the broader phases of non-technical as well as technical geography. The Society last year contributed out of its reserve funds the money necessary to purchase, to preserve from destruction, the privately-owned big trees of the Sequoia National Park region of California, and deeded them to the Federal Government to be held in perpetuity for the benefit of posterity.

In 1916 its expedition under Prof. R. F. Griggs climbed Mount Katmai, in whose crater Vesuvius could be buried, and discovered "The Valley of Ten Thousand Smokes." In 1917, a second expedition to this valley showed its area and the character of the phenomena observed to surpass anything hinted at in the reports of the previous expedition. In 1918 the Society sent a fourth expedition to Alaska to prepare bases and make observations in preparation for a large expedition, which sailed from Seattle, Washington, in April, 1919.

The Society co-operated energetically with the United States forces in the prosecution of the war.

#### THE GEOLOGICAL SOCIETY OF WASHINGTON. (Organized 1893.)

"For the increase and diffusion of geological knowledge."

##### OFFICIALS.

*President.*—E. O. Ulrich.

*Vice-Presidents.*—G. H. Ashley, H. S. Gale.

*Secretaries.*—R. W. Stone, R. S. Bassler.

*Treasurer.*—W. B. Heroy.

#### THE COLUMBIA HISTORICAL SOCIETY. (Organized 1894. Incorporated 1894.)

"For the collection, preservation, and diffusion of knowledge respecting the history and topography of the District of Columbia and national history and biography."

##### OFFICIALS.

*President.*—A. C. Clark.

*Vice-Presidents.*—J. Barnard, W. B. Bryan.

*Treasurer.*—C. H. Rudolph.

*Recording Secretary.*—Miss M. B. Morris.

*Corresponding Secretary.*—W. F. Roberts.

*Curator.*—J. F. Hood.

*Chronicle.*—F. L. Fishback.

##### Publications.—

Records of the Columbia Historical Society.

#### THE MEDICAL SOCIETY OF THE DISTRICT OF COLUMBIA. (Founded 1817. Chartered 1819.)

The object of the Society is the "promotion, locally and generally, of the science and art of medicine and sanitation, and the interests of the medical profession."

##### OFFICIALS.

*President.*—W. G. Morgan.

*Vice-Presidents.*—Miss A. R. Thomas, A. R. Shands.

*Corresponding Secretary.*—J. R. Verbrycke, jr.

*Recording Secretary.*—H. C. Macatee.

*Treasurer.*—C. W. Franzoni.

#### THE PHILOSOPHICAL SOCIETY OF WASHINGTON. (Organized 1871.)

"For the purpose of free exchange of views on scientific subjects, and the promotion of scientific inquiry among its members."

##### OFFICIALS.

*President.*—W. J. Humphreys.

*Vice-Presidents.*—R. B. Sosman, R. L. Faris.

*Corresponding Secretary.*—E. C. Crittenden.

*Recording Secretary.*—S. J. Mauchly.

*Treasurer.*—E. F. Mueller.

**Publications.**—Bulletin of the Philosophical Society of Washington (discontinued in 1911).



# WELLINGTON (New Zealand).

**THE UNIVERSITY OF NEW ZEALAND**, Wellington, New Zealand.

*Affiliated Colleges:* University of Otago, Dunedin; Canterbury College, Christchurch; Auckland University College, Auckland; Victoria College, Wellington.

## OFFICIALS.

*Visitor.*—His Excellency the Governor-General.

*Chancellor.*—Sir Robert Stout, K.C.M.G., LL.D.

*Vice-Chancellor.*—John Macmillan Brown, M.A., LL.D.

*Registrar.*—Edwin T. Norris, M.A.

## Degrees conferred :

<i>Degrees.</i>		<i>Hoods.</i>
B.A.	- - Gown similar to Cambridge	B.A. Hood lined with pink silk and bordered with white fur.
M.A.	- - Gown similar to Cambridge	M.A. Hood lined with pink silk.
Litt.D.	- - Gown similar to M.A.	Hood wholly made of pink silk.
B.Sc.	- - Gown similar to B.A.	Hood lined with dark blue silk and bordered with white fur.
M.Sc.	- - Gown similar to B.Sc.	Hood lined with dark blue silk.
D.Sc.	- - Gown similar to B.Sc.	Hood made wholly of dark blue silk.
B.LL.	- - Gown similar to B.A.	Hood lined with light blue silk and bordered with white fur.
M.LL.	- - Gown similar to M.A.	Hood lined with light blue silk.
D.LL.	- - Gown similar to M.LL.	Hood made wholly of light blue silk.
M.B.	- - Gown similar to B.A.	Hood lined with mauve silk and bordered with white fur.
M.D.	- - Gown similar to B.M.	Hood made wholly of mauve silk.
Mus.B.	- - Gown similar to B.A.	Hood lined with white silk and bordered with white fur.
Mus.D.	- - Gown similar to B.Mus.	Hood made wholly of white silk.
B.E.	- - Gown similar to B.Sc.	Hood lined with violet silk and bordered with white fur.
B.Ag.	- - Gown similar to B.Sc.	Hood lined with light green silk and bordered with white fur.
B.D.S.	- - Gown similar to B.M.	Hood lined with purple silk and bordered with white fur.
B.Vet.Sc.	- - Gown similar to B.Sc.	Hood lined with orange silk and bordered with white fur.
B.Com.	- - Gown similar to B.Sc.	Hood lined with orange silk and bordered with white fur.
B.Sc. in Home Science	- - Gown similar to B.A.	Hood lined with old gold silk and bordered with white fur.

**VICTORIA UNIVERSITY COLLEGE**, Wellington, New Zealand. (1897.)

An affiliated Institution of the University of New Zealand, *q.v.*

*Terms:* Three a year.

OFFICIALS. *See* **NEW ZEALAND UNIVERSITY.**

Degrees conferred.—*See* **NEW ZEALAND UNIVERSITY.**

## PROFESSORS.

### Professors :

J. Rankine Brown, *Classics*.  
H. Mackenzie, *English Language and Literature*.  
T. H. Easterfield, *Chemistry*.  
D. M. Y. Sommerville, *Mathematics, Pure and Applied*.  
H. B. Kirk, *Biology*.  
J. Adamson, *Roman Law, Jurisprudence and Constitutional History*.  
J. M. E. Garrow, *English and New Zealand Law*. [*Philosophy*.]  
T. A. Hunter, *Mental and Moral*

### Professors—Continued :

E. Marsden, *Physics*.  
W. Clark (Temp.).

### Lecturers :

F. P. Wilson, *History*.  
G. A. Cotton, *Geology*.  
J. S. Tennant, *Education*.  
J. Thompson, *French*.  
M. Baker (Miss), *German*.  
G. G. C. Watson, *Evidence and Procedure*.  
B. E. Murphy, *Economics*.  
8 Assistants.

**NEW ZEALAND GEOLOGICAL SURVEY, 38, The Terrace, Wellington, N.Z.**

The Geological Survey of New Zealand is a branch of the Mines Department. Its present personnel is as follows:

*Director.*—P. G. Morgan, M.A., A.O.S.M., F.G.S.  
*Mining Geologist.*—J. Henderson, B.E., M.A., D.Sc.  
*Geologist.*—H. T. Ferrer, M.A., F.G.S.  
*Assistant Geologists.*—M. Ongley, B.Sc., M.A.; L. I. Grange, B.Sc.  
*Draughtsman.*—G. E. Harris.  
*Clerk and Librarian.*—F. Fulton-Wood.

**Publications.**—Prior to 1905 numerous reports and other publications were issued under the direction of Sir James Hector. These are now nearly out of print. In 1905 the Geological Survey was reorganized under the direction of Dr. J. M. Bell. Since then, twenty geological bulletins giving the results of detailed surveys, seven paleontological bulletins, thirteen annual reports, and various other publications have been issued. Numerous papers by members of the staff have appeared in the *Transactions of the N.Z. Institute*, the *N.Z. Journal of Science and Technology*, and in other publications.

**Scope of Survey.**—The Geological Survey has in hand the detailed geological survey of New Zealand. It also reports on mineral deposits, and gives information concerning mineral resources.

**WESLEYAN UNIVERSITY.** *See* MIDDLETOWN.

**WESTERN AUSTRALIA, UNIVERSITY OF.** *See* PERTH.

**WESTERN RESERVE UNIVERSITY.** *See* CLEVELAND.

**WESTERN THEOLOGICAL SEMINARY.** *See* PITTSBURG.

**WILLIAMSTOWN (Massachusetts).**

**WILLIAMS COLLEGE,** Williamstown, Mass. (1793.)

*Terms:* Two a year.

*Students:* 555.

*Budget:* Current disbursements, \$261,726.98.

**OFFICIALS.**

*President.*—H. A. Garfield, LL.D.

*Chairman (pro tem.) of the Faculty.*—Carroll, L. Maxcy, M.A.

*Dean.*—George Edwin Howes, Ph.D.

*Registrar.*—Elmer A. Green, M.A.

**Degrees conferred.**—B.A., M.A. Honorary: D.D., M.A., L.H.D., Litt.D., LL.D.

**PROFESSORS.****Professors:**

F. Goodrich, *European History*. [ture.  
 H. D. Wild, *Latin Language and Literature*.  
 A. H. Morton, *Natural Theology*.  
 C. L. Maxcy, *Rhetoric*.  
 W. I. Milham, *Astronomy*.  
 J. L. Kellogg, *Biology*.  
 T. C. Smith, *American History, Literature, and Eloquence*.  
 H. F. Cleland, *Geology and Mineralogy*.  
 W. E. McElfresh, *Physics*.  
 G. E. Howes, *Ancient Languages*.  
 J. G. Hardy, *Mathematics*.  
 F. H. Howard, *Physiology*.  
 G. Droppers, *Political Economy*.  
 K. E. Weston, *History of Art and Civilization*.  
 M. N. Wetmore, *Latin*.  
 R. L. Taylor, *Romance Languages*.  
 J. B. Pratt, *Intellectual and Moral Philosophy*.  
 B. J. Rees, *English*.

**Professors—Continued:**

W. W. McLaren, *Economics*.  
 W. H. Doughty, *Government*.  
 B. Mears, *Chemistry*.  
 S. O. Dickerman, *Greek Language and Literature*.

**Assistant Professors:**

D. T. Clark, *Economics*.  
 J. S. Galbraith, *Greek and Latin*.  
 E. I. Shepard, *Mathematics*.  
 S. E. Allen, *Rhetoric*.  
 C. W. Johnson, *German*.  
 J. P. Rice, *Romance Languages*.  
 G. B. Dutton, *English*.  
 A. H. Licklider, *English Literature*.  
 H. L. Agard, *Mathematics*.  
 O. W. Long, *German*.  
 T. B. Hewitt, *German*.  
 A. H. Buffinton, *History*.  
 J. N. Cru, *French*.  
 R. Peattie, *Geology*. [ant.  
 2 Lecturers, 15 Instructors, 1 Assist-

**Post-Graduate Courses.**—Leading to the degree of Master of Arts.

**Libraries.**—One main Library; seven branch libraries. Main Library, 92,000 volumes, exclusive of duplicates and about 20,000 pamphlets. *Librarian*: Christine Price, B.S.

**Museum.**—Geological Museum.

### WINDSOR (Nova Scotia).

**UNIVERSITY OF KING'S COLLEGE**, Windsor, Nova Scotia. (1789.)

The oldest University in the British Overseas Dominions.

*Terms*: Two per year.

*Students* (undergraduates): 110.

*Budget*: Income and Expenditure about \$30,000.

#### OFFICIALS.

*Patron.*—The Archbishop of Canterbury.

*Visitor.*—The Bishop of Nova Scotia.

*Chancellor.*—Hon. Sir C. Townshend.

*Vice-Chancellor.*—Rev. T. S. Boyle, D.D., D.C.L.

*Public Orator.*—Rev. T. H. Hunt, D.D.

*Registrar.*—Rev. F. W. Vroom, D.D., D.C.L.

**Degrees conferred.**—B.A., M.A., B.Sc., D.Sc., B.Eng., M.Eng., B.D., D.D., B.C.L., D.C.L.

The Hoods are in every case the same as used in the University of Oxford.

#### PROFESSORS.

Rev. F. W. Vroom, *Divinity*.

Rev. T. H. Hunt „

J. B. McCarthy, *Chemistry*.

A. A. Sturley, *Engineering*.

H. W. A. Wadley, *Mathematics*.

Rev. C. E. Willets, *Classics*.

Rev. A. W. M. Harley, *English*.

Rev. T. S. Boyle, *History*.

Rev. G. F. Kingston, *Philosophy*.

Rev. A. E. Andrew, *Pastoral Theology*.

6 Lecturers.

**Post-Graduate Courses.**—Leading to degrees of D.D., D.Sc., and D.C.L.

*Librarian*: Rev. Dr. Vroom.

**Museum or Society.**—Haliburton Society, for the study of Modern History and Literature.

**WISCONSIN UNIVERSITY.** See MADISON.

**WISTAR INSTITUTION UNIVERSITY.** See PHILADELPHIA.

### WOODS HOLE (Massachusetts).

**THE MARINE BIOLOGICAL LABORATORY**, Woods Hole, Mass. (1888.)

#### OFFICIALS.

*Director.*—Prof. F. R. Little.

*Assistant Director.*—Gilman A. Drew.

*Treasurer.*—D. Blakely Hoar.

*Publication.*—Biological Bulletin.

### WOOSTER (Ohio).

**EXPERIMENT STATION, U.S. DEPARTMENT OF AGRICULTURE.**

*Director.*—C. E. Thorne.

### WORCESTER (Massachusetts).

**CLARK UNIVERSITY**, Worcester, Mass. (1889.)

*Terms*: Two semesters.

*Students*: 106.

*Budget*:

Clark University Endowment	\$1,484,000	Income	\$60,230
Library	„ 813,590	„	35,430
Art Department	„ 100,000	„	4,000

#### OFFICIAL.

*President and Professor of Psychology.*—G. S. Hall, Ph.D., LL.D.

**Degrees conferred.**—M.A., Ph.D.

*Hoods.*—University colours—emerald green and white—to be worn in the hood of Doctor's gown as a green chevron on a white field.

## PROFESSORS.

## Professors :

G. S. Hall, *Psychology*.  
W. E. Story, *Mathematics*.  
A. G. Webster, *Physics*.  
H. Taber, *Mathematics*.  
W. H. Burnham, *Pedagogy and School Hygiene*.  
G. H. Blakeslee, *History and International Relations*.

## Professors—Continued :

R. S. Lillie, *Biology*.  
C. A. Kraus, *Chemistry*.  
F. H. Hankins, *Sociology*.  
E. G. Boring, *Experimental Psychology*.

## Associate Professor :

A. B. Hulbert, *History*.

## Assistant Professor :

S. W. Fernberger, *Experimental Psychology*.

3 Instructors, and 8 Lecturers.

**Post-Graduate Courses.**—All courses in the University are post-graduate.

**Librarian and Custodian of the Art Collection.**—L. N. Wilson.

**Museum.**—The Children's Institute and Educational Museum.

## AFFILIATED INSTITUTE.

Clark College.

**CLARK COLLEGE**, Worcester, Mass. (1902.)

*Terms* : Two semesters.

*Students* : 205.

*Budget* : Endowment, \$1,673,200. Income, \$80,548.

## OFFICIALS.

*President.*—E. C. Sanford, Ph.D., LL.D.

*Degree conferred.*—B.A.

## PROFESSORS.

## Professors :

J. P. Porter, *Psychology*.  
B. S. Merigold, *Chemistry*.  
F. B. Williams, *Mathematics*.  
G. H. Blakeslee, *History and International Relations*.  
P. C. Hoyt, *English*.  
C. B. Randolph, *Latin*.  
P. H. Churchman, *Romance Languages*.  
H. D. Brackett, *Greek*.  
L. C. Wells, *French and Spanish*.  
F. H. Hankins, *Political and Social Science*.  
L. A. Ames, *English Literature*.  
I. A. Field, *Biology*.

## Associate Professors :

L. H. Dodd, *English*.  
C. E. Melville, *Mathematics*.  
G. F. White, *Organic Chemistry*.  
R. H. Goddard, *Physics*.

## Assistant Professors :

L. R. Geissler, *Psychology and Education*.  
E. H. Harrington, *Physics*.  
K. S. Rice, *Biology*.  
C. O. Fisher, *Economics*.  
J. Metivier, *French*.  
J. S. French, *Mathematics*.  
L. H. Jenks, *History*.  
2 Lecturers, 1 Director of Physical Education, 1 Medical Director, and 1 Musical Director.

**Post-Graduate Courses.**—All courses in the College are undergraduate.

*Librarian* : L. N. Wilson.

**WORCESTER ART MUSEUM**, Worcester, Mass., U.S.A.

The Worcester Art Museum, founded in 1896, by Stephen Salisbury, for the promotion of Art and Art Education in Worcester.

## OFFICIALS.

*President.*—F. H. Dewey.

*Vice-President.*—F. S. P. Bratt.

*Treasurer.*—L. N. Kinnicutt.

*Director.*—Raymond Wyer.

The collections include archeology, architecture, coins, and medals, furniture, ceramics, metalwork, Oriental objects, Colonial silver, sculpture, textiles, woodwork, prints, photographs, and a library. Of special note are the collections of paintings by old and modern masters; the unique group of Italian terra-cottas of the fifteenth and sixteenth centuries; the Bancroft Collection of Japanese Prints—one of the best public collections in the country; the Godspeed Collection of engravings by American masters.

Lectures are offered to the public and to special groups of persons and organizations. The Museum was a pioneer in starting a section devoted to children, and has taken the initiative in an improved system of education.



**AMERICAN ANTIQUARIAN SOCIETY, Worcester, Mass. (1812.)**

Membership consists of 175 United States members and 35 foreign members. No dues, and all members elected for honorary reasons only.

**OFFICIALS.**

*President.*—W. Lincoln.

*Librarian.*—C. S. Brigham.

**Publications** consist of semi-annual *Transactions*, volumes 1-12 (1820-1911), at \$2.50; *Proceedings*, 1812-1880 (occasional, 1880-1919), at \$2.00 a volume.

**Library.**—Consists of 130,000 volumes, 196,000 pamphlets, and 40,000 manuscripts.

**WYE (Kent).**

**SOUTH EASTERN AGRICULTURAL COLLEGE, Wye, Kent. (1893.)**

*Terms* : Three per year.

*Students* : 160.

**OFFICIALS.**

*Principal.*—M. J. R. Dunstan, O.B.E., M.A.

*Assistant Principal.*—T. W. Cave, M.R.C.V.S.

*Vice-Principal.*—F. V. Theobald, M.A.

*Secretary.*—J. N. L. Jones.

**Degrees conferred.**—Students are prepared for the B.Sc. (Agric.) Degree of London University.

The College grants diplomas in Agriculture and Horticulture to duly qualified students.

**AGRICULTURE AND DAIRYING.**

**Staff :**

M. J. R. Dunstan.	J. C. Norie.
W. H. Kersey.	W. A. Stewart.
J. H. Mattinson.	H. Aglesby.

**AGRICULTURAL ENGINEERING.**

C. Davies.

**VETERINARY SCIENCE AND BACTERIOLOGY.**

T. W. Cave.

**CHEMISTRY.**

A. H. Burgess.  
L. W. Evans.  
W. S. Gray.  
H. Wormald (Mrs.).

**BOTANY.**

S. T. Parkinson.  
E. S. Salmon (Reader in Mycology,  
London University).  
J. C. Waller.  
H. Wormald.  
W. M. Ware.

**Library.**—About 4,000 standard Agricultural and Scientific Works. *Librarian* : C. H. Hooper.

Wye College Fruit Research Station, East Malling, Kent. *Director* : R. G. Hatton.  
*Manager* : J. Amos.

**ZOOLOGY AND ENTOMOLOGY.**

F. V. Theobald.  
S. G. Brade-Birks.  
C. A. W. Duffield.

**GEOLOGY.**

S. G. Brade-Birks.

**ESTATE MANAGEMENT AND COST ACCOUNTING.**

A. H. Haines. H. W. Kersey.

**POULTRY.**

H. Howes.

**FRUIT GROWING.**

C. S. Smith. R. G. Hatton.  
W. Miskin.

**VEGETABLE GROWING.**

H. C. Chapelow.

**BUILDING CONSTRUCTION.**

H. Daw.

**IRONWORK FARRIERY AND WOODWORK.**

W. Wardley. J. A. Watson.

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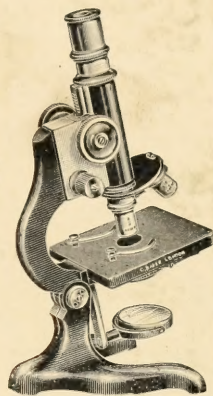
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